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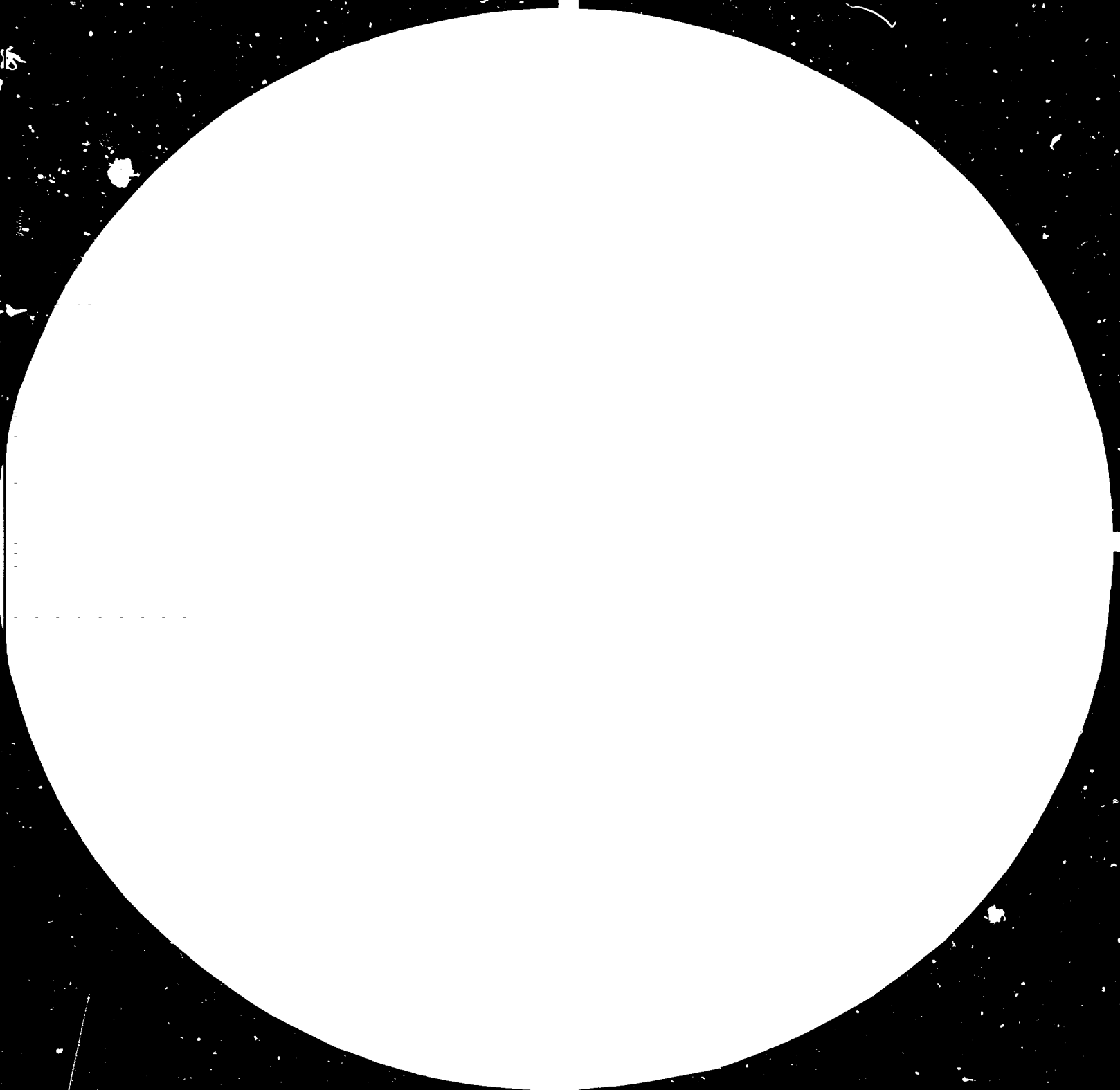
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UNITED NATIONS INDUSTRIAL DEVELOPMENT ORGANIZATION

83

**Guide to Training Opportunities
for Industrial Development** ¹⁹⁸³ (Eleventh issue)

**Aperçu des moyens de formation
pour le développement industriel** (Onzième édition)

**Repertorio de Oportunidades de Capacitación
para el Desarrollo Industrial** (Undécima edición)

Training Branch – Division of Industrial Operations
UNIDO
P.O. Box 300, A-1400 Vienna, Austria

Please read preface carefully

Veillez lire la préface attentivement

Por favor, leáse el prefacio detenidamente

(1)

PREFACE

This compilation of industrial training opportunities for personnel from developing countries is the eleventh edition of a UNIDO publication that first appeared in 1972. It is based on the replies to a questionnaire soliciting information about training facilities, sent to Governments, organizations, institutions and other bodies concerned with industrial training. To reduce the size of this edition, entries listed in earlier issues have not been repeated without a specific request by the organizer to do so. Likewise, a single entry frequently covers several courses given by the same organization. Consequently, the current edition is smaller than earlier ones but contains considerably more information. Its approximately 500 entries cover more than 3,000 training courses. It should be emphasized that while these are but a fraction of the facilities existing globally for industrial training, they are possibilities that Governments and organizations believe are of particular interest to UNIDO.

Reflecting the increasing importance of technical co-operation among developing countries, the number of entries covering training opportunities in those countries continues to grow, and this increase is indicative of the attractiveness and benefit to personnel from developing countries of receiving training in circumstances that are similar to those in their home countries. Moreover, greater use of the facilities in developing countries helps to mitigate the difficulties that sometimes arise in arranging suitable training programmes in industrialized countries, where facilities are often strained.

The Guide is divided into four chapters: (1) training opportunities organized and offered by UNIDO; (2) training opportunities offered by institutions other than UNIDO classified according to A. industrial branches and B. industrial functions, excluding short-term courses of less than half-a-month duration; (3) other courses, and short-term courses that may be of interest as part of longer, more comprehensive training programmes; and (4) fields of training by host country. The training opportunities listed are suitable mainly for technical, managerial and administrative personnel, including entrepreneurs, at the level of engineers (or equivalent) and above, engaged in industry and its development. With a few exceptions, courses in the regular curricula of universities or similar institutions are not included, nor is information on ad hoc training in industry or elsewhere. Part-time courses are also not included.

Chapter (1) follows chronological order, while the entries in chapters (2) and (3) are listed by country in English alphabetical order.

UNIDO is not in a position to give further details on courses offered by other institutions. Readers desiring more information are asked to contact the institutions directly, using the mailing address given in each entry.

The training opportunities listed in the Guide are not limited to holders of UNIDO fellowships. Any qualified individual from a developing country who has not applied for or won a UNIDO fellowship may apply for a course or be nominated to attend. Such applications and nominations may go direct to the organizer of the course. Applicants for UNIDO fellowships, however, must be nominated by their Governments, and the nominations must be sent through the Resident Representative of the United Nations Development Programme (UNDP) to UNIDO. Further information on UNIDO training activities is available from the UNIDO Industrial Training Offer Programme, 1983.

Information on training facilities in a wide range of subjects may be requested from the secretariats of the Economic Commission for Africa (ECA), Addis Ababa; the Economic and Social Commission for Asia and the Pacific (ESCAP), Bangkok; the United Nations Office at Geneva; the International Labour Organisation (ILO), Geneva; the International Centre for Advanced Technical and Vocational Training in Turin, Italy; the Food and Agriculture Organization (FAO), Rome; the United Nations Educational, Scientific and Cultural Organization (UNESCO), Paris; the World Intellectual Property Organisation, Geneva; and other international organizations.

It is hoped that this publication will continue to benefit all those in developing countries who are in need of industrial training. The twelfth edition of the Guide is scheduled to appear in late 1983 and will cover courses to be offered in 1984 and, to the extent possible, 1985.

PREFACE

Le présent répertoire des possibilités de formation industrielle offertes aux cadres de pays en développement est la onzième édition d'un document de l'ONUDI publié pour la première fois en 1972. Il a été établi d'après les renseignements fournis par un certain nombre de gouvernements, d'organisations et d'institutions s'occupant de formation industrielle en réponse à un questionnaire sur les possibilités de formation qu'ils offraient. Afin de condenser la présente édition, les rubriques qui figuraient déjà dans les éditions précédentes n'ont été réinsérées que sur la demande expresse des organisateurs. Il est également fréquent qu'une rubrique englobe plusieurs stages mis sur pied par une même organisation. En conséquence, la présente édition, moins volumineuse que les précédentes, contient néanmoins beaucoup plus d'informations. Elle compte quelque 500 rubriques concernant plus de 3 000 stages de formation. Il convient de souligner que ces possibilités de formation ne représentent qu'une infime partie de celles qui sont offertes dans le monde entier mais que les organisations et les gouvernements estiment qu'elles présentent un intérêt particulier pour l'ONUDI.

Du fait de l'importance croissante de la coopération technique entre pays en développement, le nombre des possibilités de formation offertes dans ces pays ne cesse d'augmenter, ce qui témoigne des avantages que présente, pour leurs ressortissants, une formation dans des conditions proches de celles de leur pays d'origine. En outre, le recours accru aux moyens dont disposent les pays en développement contribue à atténuer les difficultés que soulève parfois l'organisation de stages de formation appropriés dans les pays industrialisés, où les services compétents ne sont souvent plus en mesure d'accepter un surcroît de travail dans ce domaine.

Le présent répertoire comprend quatre chapitres : 1) possibilités de formation offertes par l'ONUDI elle-même ; 2) possibilités de formation offertes par des institutions autres que l'ONUDI, classées par A. secteurs industriels et B. fonctions industrielles, à l'exception des stages de courte durée (moins de 15 jours) ; 3) stages qui n'entrent pas dans les catégories précitées et stages de courte durée qui peuvent utilement s'insérer dans des programmes de formation plus longs et plus vastes ; 4) domaines de formation, par pays. Les possibilités de formation énumérées sont destinées avant tout au personnel technique et administratif (ingénieurs ou équivalents et personnel de rang supérieur) et aux chefs d'entreprise qui travaillent dans l'industrie et participent à son développement. A quelques exceptions près, les matières figurant ordinairement au programme des universités et des établissements similaires n'ont pas été retenues, non plus que les renseignements concernant des programmes spéciaux de formation organisés notamment dans l'industrie. Il en a été de même pour les stages à temps partiel.

Pour le chapitre premier, on a adopté l'ordre chronologique, tandis que dans les chapitres II et III, les possibilités de formation énumérées sont classées dans l'ordre alphabétique anglais des pays hôtes.

Pour obtenir de plus amples renseignements sur les stages autres que ceux organisés par l'ONUDI elle-même, on se mettra en rapport directement avec les institutions intéressées ; leurs adresses figurent dans les rubriques consacrées aux stages qu'elles organisent.

Les moyens de formation indiqués ne sont pas réservés exclusivement aux titulaires de bourses de l'ONUDI. S'il remplit les conditions requises, tout ressortissant d'un pays en développement peut demander à participer à l'un de ces stages ou à être désigné pour y participer. Dans le cas des personnes n'ayant pas sollicité ou obtenu une bourse des Nations Unies, les demandes ou les candidatures peuvent être présentées directement à l'organisateur du stage considéré. Les candidats à des bourses de l'ONUDI doivent être désignés par leurs gouvernements et leurs dossiers doivent être soumis à l'Organisation par l'intermédiaire du Programme des Nations Unies pour le développement (PNUD). Pour tous renseignements complémentaires sur les activités de formation de l'ONUDI, prière de consulter la brochure intitulée "Programme de formation industrielle proposé par l'ONUDI pour 1983".

Des renseignements sur les possibilités de formation dans de nombreux domaines peuvent être obtenus auprès du secrétariat de la Commission économique pour l'Afrique (CEA), à Addis-Abeba ; de la Commission économique et sociale pour l'Asie et le Pacifique (CESAP), à Bangkok ; de l'Office des Nations Unies à Genève ; de l'Organisation internationale du Travail (OIT), à Genève ; du Centre international de perfectionnement professionnel et technique de Turin (Italie) ; de l'Organisation des Nations Unies pour l'alimentation et l'agriculture (FAO), à Rome ; de l'Organisation des Nations Unies pour l'éducation, la science et la culture (UNESCO), à Paris ; de l'Organisation mondiale de la propriété intellectuelle (OMPI), à Genève ; et d'autres organisations internationales.

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L'ONUDI espère que la présente publication sera aussi utile que les précédentes à tous ceux qui, dans les pays en développement, ont besoin d'une formation industrielle. La douzième édition du répertoire, qu'il est prévu de publier à la fin de 1983, indiquera les possibilités de formation offertes pour l'année 1984 et, dans la mesure du possible, pour l'année 1985.

PREFACIO

La presente compilación de oportunidades de capacitación industrial para personal de países en desarrollo constituye la decimoprimer edición de una publicación de la ONUDI que apareció por vez primera en 1972. Está basada en las respuestas a un cuestionario enviado a gobiernos, organizaciones o instituciones y otras entidades que se ocupan de capacitación industrial, solicitando información sobre servicios e instalaciones para este objeto. A fin de reducir las dimensiones de esta edición, no se ha repetido ninguna entrada que figurase en ediciones anteriores sin una solicitud expresa de la entidad organizadora. Asimismo, una sola entrada sirve, a menudo, para reseñar diversos cursos impartidos por la misma organización, lo que explica que la presente edición, pese a ser más pequeña, contenga bastante más información que las anteriores. El Repertorio contiene aproximadamente 500 entradas y facilita información sobre más de 3.000 cursos de capacitación. Si bien estas cifras no pasan de ser una fracción de las oportunidades de capacitación industrial existentes en todo el mundo, cabe señalar que se trata de oportunidades consideradas por los gobiernos y las organizaciones competentes como de particular interés para la ONUDI.

Como resultado de la creciente importancia de la cooperación técnica entre países en desarrollo, sigue en aumento el número de entradas sobre oportunidades de capacitación en esos países, lo que enota también el atractivo y los beneficios que presenta para personal de países en desarrollo el recibir capacitación en condiciones similares a las del propio país. Además, el recurrir en mayor medida a los servicios de esta índole indicados en los países en desarrollo contribuye a aliviar las dificultades que a veces entraña la organización de cursos de capacitación adecuados en los países industrializados, cuyos servicios están ya excesivamente recargados.

El Repertorio está dividido en cuatro capítulos: 1) oportunidades de capacitación organizada y ofrecida por la ONUDI; 2) oportunidades de capacitación ofrecidas por instituciones distintas de la ONUDI y clasificadas de la siguiente manera: A. ramas industriales y B. funciones industriales, que no sean cortos, de menos de medio mes de duración; 3) otros cursos, y cursos cortos que puedan ofrecer interés como componentes de programas de capacitación de contenido más amplio y de mayor duración y 4) esferas de capacitación facilitada por el país huésped. Las oportunidades de capacitación aquí compiladas corresponden principalmente a las necesidades del personal técnico, directivo y administrativo, incluidos los empresarios, a nivel de ingenieros (o equivalente), que realiza actividades relacionadas con la industria y su desarrollo. Con escasas excepciones, no se han incluido los cursos que forman parte de los planes de estudio ordinarios de universidades o instituciones similares, como tampoco la información relativa a la capacitación especial impartida en la industria o en otros centros. Tampoco se han incluido los cursos de tiempo parcial.

En el capítulo 1) se sigue el orden cronológico, mientras que en los capítulos 2) y 3), las entradas se presentan en el orden alfabético inglés de los países en que se ofrece la capacitación.

A la ONUDI no le es posible dar más detalles sobre los cursos que ofrecen otras instituciones. Se ruega a los lectores que deseen información adicional al respecto que se dirijan directamente a esas instituciones, cuyas direcciones figuran junto a cada entrada.

Las oportunidades de capacitación compiladas en el Repertorio no se ofrecen sólo a becarios de la ONUDI. Cualquier persona calificada de un país en desarrollo que no haya solicitado u obtenido una beca de la ONUDI puede solicitar su admisión o ser presentada como candidato para participar en uno de estos cursos. Esta solicitud y su candidatura pueden dirigirse directamente al organizador del curso. En cambio, las candidaturas a becas de la ONUDI deben ser presentadas a la Organización por los respectivos gobiernos, por conducto del Representante Residente del Programa de las Naciones Unidas para el Desarrollo (PNUD). En el Programa de Ofertas de Capacitación Industrial, de la ONUDI, para 1983, se ofrece más información sobre las actividades de capacitación de la ONUDI.

(iv)

Puede solicitarse información sobre servicios de capacitación, en un amplio espectro de materias, a las secretarías de la Comisión Económica para África (CEPA), Addis Abeba, la Comisión Económica y Social para Asia y el Pacífico (CESPAP), Bangkok, la Oficina de las Naciones Unidas en Ginebra, la Organización Internacional del Trabajo (OIT), el Centro Internacional de Perfeccionamiento Profesional y Técnico, de Turín (Italia), la Organización de las Naciones Unidas para la Agricultura y la Alimentación (FAO), Roma, la Organización de las Naciones Unidas para la Educación, la Ciencia y la Cultura (UNESCO), París, la Organización Mundial de la Propiedad Intelectual (OMPI), Ginebra, y otras organizaciones internacionales.

Se espera que esta publicación siga beneficiando a todas aquellas personas de los países en desarrollo que requieran capacitación en la esfera industrial. La publicación de la decimosegunda edición de este Repertorio está prevista para finales de 1983; comprenderá los cursos que se ofrecerán en 1984 y, en la medida de lo posible, en 1985.

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CHAPTER 1: TRAINING OPPORTUNITIES OFFERED BY UNIDO

UNIDO organizes group training programmes for technical and managerial personnel in industry and industrial institutions in developing countries, in co-operation with Governments, firms and organizations having specialized knowledge and experience in a particular field. Two kinds of training are offered: in-plant training programmes, which last from two to five months, and seminars and other group training programmes, lasting from one to six weeks.

The objectives of the in-plant group training programmes are to furnish the participants with intensive practical experience in a relatively short time and to upgrade their theoretical knowledge. The programmes are monitored by experts and usually include four elements: a theoretical introduction, studies, actual in-plant training, and study tours. At the end of each programme, an evaluation session is held, during which participants are provided with the opportunity to assess the value of what they have learned in the light of conditions in their home countries. The seminars and other group training have the same objectives; they offer theoretical instruction and, to the extent feasible, practical work.

At the time of the publication of this Guide, the UNIDO group training programmes shown on this list are scheduled to take place in 1983. Other such group training programmes could take place on an ad hoc basis. They are all organized subject to the availability of funds and suitable host facilities. The programmes are held on a regional or interregional basis, this is clearly indicated for each of the programmes listed. Please note that the language in which the course will be conducted, will be shown for each programme. It is essential that participants master that language to obtain maximum results out of the programme.

Formal applications for participation should be submitted to UNIDO through appropriate government channels and UNDP resident representatives only after the official invitation requesting nomination of candidates has been received. Apart from that, however, governments are asked to notify UNIDO as early as possible of their interest in participating.

The general requirements for admission are an academic degree or equivalent and several years of practical experience in the particular field.

Further information may be obtained from: Training Branch, DIO
United Nations Industrial Development Organization
P.O. Box 300, A-1400 Vienna, Austria

Any query regarding these programmes should however reach UNIDO sufficiently in advance to allow time for the channelling of communications.

CHAPITRE : 1 POSSIBILITES DE FORMATION OFFERTES PAR L'ONUDI

L'ONUDI organise, en coopération avec les gouvernements des pays hôtes et avec le concours d'entreprises industrielles et d'instituts spécialisés dans les domaines considérés, des stages de formation en groupe à l'intention du personnel technique et des cadres de gestion des entreprises et instituts industriels des pays en développement. L'Organisation propose deux types de formation : stages de formation collective en entreprise, qui durent de deux à cinq mois, et séminaires ou autres stages de formation collective qui durent de cinq à six semaines.

Les stages de formation collective en entreprise ont pour objectifs de permettre aux participants d'acquérir, dans un laps de temps relativement court, une solide expérience pratique et de parfaire leurs connaissances théoriques. Ils sont dirigés par des experts et comprennent en général quatre parties, à savoir une introduction théorique, des études, une formation pratique dans des entreprises et des visites d'établissements. Tous les stages se terminent par une session d'évaluation au cours de laquelle les participants évaluent les connaissances qu'ils ont acquises, eu égard aux conditions existant dans leur pays d'origine. Les séminaires et les autres stages de formation collective reprennent aux mêmes objectifs et comportent une formation théorique et, dans la mesure du possible, des travaux pratiques.

Au moment de la publication du présent répertoire, les programmes de formation groupés de l'ONUDI mentionnés sont programmés pour être organisés en 1983. D'autres programmes de formation groupés peuvent être organisés sur une base ad hoc. Tous sont organisés sous réserve de disposer de fonds nécessaires et de trouver, dans le pays d'accueil, des moyens de formation adéquats. Les programmes sont organisés sur une base régionale ou interrégionale ; ceci est clairement indiqué pour chacun des programmes figurant dans la liste. Il est à noter que la langue dans laquelle le cours sera conduit est mentionnée pour chaque programme. Il est essentiel que les participants maîtrisent cette langue pour retirer le maximum de résultats du programme.

Les candidatures ne doivent être présentées à l'ONUDI par l'intermédiaire des services officiels compétents et du Représentant résident du PNUD qu'après réception de l'invitation officielle demandant l'envoi de candidatures ; les gouvernements sont en outre priés de faire savoir le plus rapidement possible à l'ONUDI s'ils envisagent de présenter des candidats à tel ou tel stage.

Les conditions générales d'admission sont les suivantes : être titulaire d'un diplôme universitaire (ou d'un diplôme équivalent) et justifier de plusieurs années d'expérience dans le domaine sur lequel porte la formation.

De plus amples renseignements sur les stages peuvent être obtenus à l'adresse suivante :

Service de la formation
Division des opérations industrielles
Organisation des Nations Unies pour le développement industriel
Boîte postale 300, A-1400 Vienne (Autriche)

Toute demande d'information concernant les programmes doivent cependant parvenir suffisamment à l'avance à l'ONUDI afin de donner un laps de temps suffisant pour permettre l'échange de communication.

CAPITULO 1: OPORTUNIDADES DE CAPACITACION OFRECIDAS POR LA ONUDI

La ONUDI, con la colaboración de diversos gobiernos así como empresas y organizaciones poseedoras de experiencia y conocimientos especializados, organiza programas de capacitación colectiva destinados a personal administrativo y técnico de categoría superior de la industria y las instituciones industriales de países en desarrollo. Se ofrecen dos tipos de capacitación: programas de capacitación colectiva en el trabajo, que duran de dos a cinco meses, y seminarios y otros programas de capacitación colectiva, de tres a seis semanas de duración.

Los objetivos de los programas de capacitación colectiva en el trabajo consisten en dar a los participantes, en un espacio de tiempo relativamente corto, la posibilidad de adquirir experiencia práctica intensiva y de ampliar sus conocimientos teóricos. Los programas son supervisados por expertos y, en general, constan de cuatro elementos: una introducción teórica, los estudios, la capacitación misma en el trabajo, y viajes de estudio. Cada programa termina con una sesión de evaluación, en la cual los participantes examinan la utilidad de lo que han aprendido, a la luz de las circunstancias existentes en sus respectivos países. Los seminarios y demás programas de capacitación colectiva tienen los mismos objetivos; ofrecen enseñanza teórica y, en la medida de lo posible, estudios prácticos.

En el momento de publicarse esta Guía, los programas de capacitación colectiva de la ONUDI mencionados en esta lista están programados para llevarse a cabo en 1983. Otros programas de capacitación colectiva podrán efectuarse sobre bases *ad hoc*. La organización de cada uno de estos programas está sujeta a la disponibilidad de los recursos financieros necesarios así como la disponibilidad de una infraestructura de capacitación adecuada ofrecida por la entidad huésped. Los programas se celebrarán con carácter regional e interregional, esto está claramente indicado para cada programa enlistado. Por favor nótese que la lengua en la cual el curso será conducido, será indicado en cada programa. Es esencial que los participantes dominen esta lengua para obtener los mayores resultados del programa.

Las solicitudes oficiales de participación deben presentarse a la ONUDI a través de los conductos gubernamentales apropiados y por medio del Representante Residente del Programa de las Naciones Unidas para el Desarrollo, pero sólo después de recibida la invitación oficial en la que se pide la designación de candidatos. No obstante, se ruega a los Gobiernos que notifiquen a la ONUDI, lo antes posible, su interés por participar en estos programas.

Los requisitos generales de admisión son un título universitario (o su equivalente) y varios años de experiencia práctica en la esfera respectiva.

Puede obtenerse mayor información sobre estos programas escribiendo a:

Subdivisión de Capacitación, DDI
Organización de las Naciones Unidas para el Desarrollo Industrial
P.O. Box 300, A-1400 Viena (Austria)

Cualquier pregunta concerniente a estos programas deberá ser recibida en la ONUDI con suficiente anticipación a fin de permitir elaborar su adecuada respuesta.

<u>Field of study</u> <u>Sujet d'étude</u> <u>Materia de estudio</u>	<u>General description</u> <u>Description générale</u> <u>Descripción general</u>	<u>Venue and host institution</u> <u>Lieu et organisme hôte</u> <u>Lugar e institución huésped</u>	<u>Duration</u> <u>Durée</u> <u>Duración</u>	<u>Invited countries</u> <u>Pays invités</u> <u>Países invitados</u>	<u>Qualifications</u> <u>Qualifications</u> <u>Qualificaciones</u>
<u>Language</u> <u>Langue</u> <u>Lengue</u>					
JANUARY - JANVIER - ENERO					
Quality improvement of industrial products	The concept, basic quality control techniques, standardization, inspection, verification and quality control circles. The planning design and management of quality control systems. Quality control activities in developing countries.	The Association for Overseas Technical Scholarship Tokyo, Japan	13/01-16/03	Interregional programme English	Engineering degree with managerial quality control. At least five years industrial quality control practical experience in electro-mechanical engineering industry or with industrial organization services to above industry.
FEBRUARY - FEVRIER - FEBRERO					
Production of machine components in metalworking industry	Planning, executing and supervising of the manufacturing processes of machine parts; design of jigs and mixtures, design and use of cutting tools; operation and maintenance, quality control and economics of metalworking operations, etc. Practical studies in laboratories and in-plant training in metalworking industry.	Lumumba University Moscow Union of Soviet Socialist Republics	07/02-04/06	Interregional programme English	A degree in mechanical engineering (or equivalent) with at least three years of practical experience in a supervisory or managerial capacity in metalworking, particularly machine tool operations, planning, manufacture and maintenance and repair.
Planning and development of training functions in public enterprises in Latin America	Human resources development for public industrial enterprise managers and research and development on manpower planning and training for p.e., assessing training needs, curricula development and testing, training packages and indigenous training materials, and evaluation of training and follow-up.	Escuela Superior de Administración Pública (ESAP) Bogota Colombia	07/02-11/02	Regional programme, Latin America English Español	Participants will be heads of selected training institutions in Latin American region dealing with training of high level managerial and technical personnel for public enterprises.

Technology of nitrogen fertilizer industry	Plant supervision and maintenance of nitrogen fertilizer industry; plant operating conditions, trouble-shooting and emergency situations, technical problems; application of technologies, accuracy and operational reliability of instrumentation, pollution abatement, energy conservation, corrosion.	PUSRI Training Centre Palembang Indonesia	14/02- 05/03	Interregional programme English	Plant supervisors responsible for plant operations and plant maintenance engineers with extensive experience in the fertilizer industry.
Technologies textiles coton - laine	Le programme traitera au cours d'exposés théoriques, de visites d'entreprises, de cas pratiques et de stages des points suivants : techniques de fabrication, contrôle de qualité, productivité et économie des procédés de fabrication.	Centre de Recherche et de Contrôle Lainier et Chimique et Laboratoire de Meulemeester de Technologie des Matières Textiles (Chaineux et Gand, Belgique)	28/02- 24/06	Programme interrégional Français	Ingénieur ou technicien responsable de production ou du contrôle de qualité dans une entreprise textile ou travaillant dans un centre de recherches textile.
MARCH - MARS - MARZO					
Repair and maintenance of medium/small ships	Theory in ships, materials, engines, pumps, electronics, electricity, equipment, maintenance. Practical training on a medium ship-wharf; building of small vessels, repairs, ship repair workshop, training on board of the ship in the port.	Antwerp Port Engineering and Consulting (APEC) Apec, Belgium	01/03- 30/06	Interregional programme English	Engineers and technicians (or equivalent) having at least 3 years of practical experience in the field of maintenance and repair of medium/small ships.
Technology and equipment in electric welding	Technology and equipment for electric fusion, resistance, welding processes, modern welding, arc power resources, welding material and structures, constructive technological designing of welded material, etc. In-plant training in plants manufacturing electric welding equipment, metal-working industry as well as laboratories.	E.O. Paton Electric Welding Institute Kiev Ukrainian Soviet Socialist Republic	03/03- 24/06	Interregional programme English	A university degree (or equivalent) in electrical, mechanical, metallurgical or structural engineering with at least 3 years of practical experience related to electric welding.

Techniques de conception et de création de modèles dans l'industrie du cuir et du soulier	Le programme a pour objectif d'augmenter les connaissances professionnelles du personnel de conception des entreprises industrielles, centres de formation, instituts de recherches bureaux de consultation travaillant dans l'industrie du cuir et du soulier. Il sera suivie divisé en une partie commune qui sera par tous les participants qui seront ensuite répartis soit dans le groupe production de souliers, soit dans le groupe production de produits en cuir. Le programme comprendra des exposés, discussions, études de cas, travaux de laboratoire, visites et stages en entreprise.	ONUDI en collaboration avec PISIE (Politecnico Internazionale per lo Sviluppo Industriale et Economico) JESI (Ancona) Italie	14/03-10/06	Programme interrégional Français	Education secondaire au moins, complété par un cours de spécialisation dans le domaine du cuir ou des produits en cuir. Trois années d'expérience dans l'industrie du cuir, dans un centre de recherche ou dans un bureau d'études en tant que personnel de conception, d'encadrement ou de formation.
Technology and training methodology in diesel engines	Practical know-how and experience in technological, economical and managerial aspects on the utilization; operation and maintenance, design and production of diesel engines and spare parts. In-plant training in the production plants on manufacturing of diesel engines and spare parts or on maintenance operations (with training methodology aspects).	TES-Institute Prague Czechoslovakia	15/03-09/06	Interregional programme English	A university level degree in mechanical engineering (or equivalent) and a few years of practical experience in a responsible capacity in state-owned or private enterprise in operation and/or overall maintenance and repair of diesel engines, design or production of such engines or spare parts.
Iron and steel industry technology	Theory in technological process of equipment, economic planning, management, maintenance. In-plant training in foundry, blast furnace, sintering plant, open hearth plant, rolling mills, refractory maintenance.	Zaporozh Steel Zaporozhye Ukrainian Soviet Socialist Republic	23/03-18/07	Interregional programme English	Metallurgical, chemical, electrical, mechanical engineering degree and directly engaged in one of the production activities. Technical fields of iron and steel industry. Practical experience should not exceed three years.

APRIL - AVRIL - ABRIL

Technology of mineral fertilizer production	Technology and planning of mineral fertilizer production. Raw material, present development prospects of world production of mineral fertilizers. Key processes and operations and their economic evaluation. Scientific research work on fertilizer production with in-plant training in nitrogen fertilizer or phosphate fertilizer plants.	Ministry of Chemical Industry Moscow Union of Soviet Socialist Republics	01/04-29/06	Interregional programme English	A university degree (or equivalent) in chemical engineering or chemistry and at least 3 years of practical experience in a supervisory or managerial capacity in the fertilizer industry.
Design and utilization of tooling in metal-working industries	General information on fixture elements, methods for designing of fixtures, turning, drilling, milling, grinding fixtures, assembly fixtures, inspection fixtures, fixtures for setting-up and adjustment of cutting tools, piercing and blanking press tools, bending and drawing press tools, press tool elements, compound and progressive press tools, general hints of forging. Practical training includes tooling design practice. Study tour visits to a number of leading machine building enterprises in Bulgaria.	Machine Tool Plants Machine Tool Research Institute NC/CAM Metalworking Development Centre Sofia, Bulgaria	2 months 02/04-29/05	Interregional programme English	A degree in mechanical engineering (or equivalent) with at least 3 years of practical experience in relevant fields.
Grain milling and storage - technology trainers training	Technology part: technology and equipment of elevators processing of grain, production of loose and granulated mixed fodders, quality control of grain, flour and mixed fodders, etc. Practical studies in laboratories and in-plant training in selected enterprises. Trainers training part: personnel management concept; management training function in plant; determination analysis of training needs; concepts of learning psychology; use and development of audio-visual equipment and materials for training; individualized and group training methods; curriculum development; evaluation and follow-up of training; training of managers and workers; practice in conducting training sessions.	Institute for Advanced Training of Managers and Specialists of the Ministry of State Purchases Moscow Union of Soviet Socialist Republics	04/04-30/07	Interregional programme English	Educational background related to technological science; managerial or supervisory post in a grain milling enterprise or in a governmental or semi-governmental body dealing with grain milling enterprises. Candidates are expected to carry out training activities in their home countries upon completion of the programme.

Repair and maintenance of diesel engines	The basic working principles, construction and general characteristics of high speed diesel engines, the basic work involved in the assembly, inspection and adjustment of such engines and the techniques of their installation, maintenance overhaul and repair.	Ministry of Agricultural Machinery, Shanghai Diesel Engines Works Shanghai China	04/04-08/07	Interregional programme English	Mechanical engineering degree, 3 to 5 years experience with supervisory responsibilities in maintenance, repair and overhaul of diesel engines.
Woodprocessing industries	Technical appraisal of public sector mechanical wood processing industries, recent technical developments, wood-working industries, timbers, primary and secondary wood processing industries, problem evaluation and trouble-shooting,	International Centre for Public Enterprises Ljubljana, Yugoslavia	11-23/04	Interregional programme English	Technical or general managers of wood processing industries; government investment board officers.
Design, manufacturing and operation of agricultural machinery	With emphasis on practical training, the programme will cover operations related to casting, heat treatment, moulding, design, manufacturing processes, construction and operation of agricultural machinery including walking tractors and quality control.	ZHENJIANG Institute of Agricultural Machinery Zhenjiang China	11/04-08/07	Interregional programme English	Infrastructure, quality and availability of technical personnel, investment incentives. Agricultural or mechanical engineering with 3 to 5 years practical experience in manufacturing or farm machinery implements and industry supervisory responsibilities.
Documentación e información industrial	Función que corresponde a la información industrial en la industrialización, sistemas de recuperación de datos y su aplicación práctica, sistemas de clasificación, sistemas de información para la industria. Capacitación práctica en información industrial y documentación y visitas de estudio a institutos especializados que proporcionan servicios de información a la industria.	VINITI, Instituto Soviético de Información Científica y Técnica Moscú, Unión de Repúblicas Socialistas Soviéticas	12/04-21/06	Programa para la América Latina en los países portugueses	Pueden participar en este programa candidatos de ambos sexos, que deberán ser graduados universitarios o poseer un historial académico equivalente, y tener varios años de experiencia práctica en el campo de la información y/o tecnológica, en el funcionamiento de centros de información existentes o en el establecimiento de centros nuevos.

Techniques de gestion dans l'industrie manufacturière	Techniques de gestion de la production, notamment normalisation : planification du contrôle de la qualité, eu égard plus particulièrement à la fabrication de produits pour l'exportation. Stages individuels de formation pratique dans l'industrie.	Ecole Supérieure des Sciences Economiques et Sociales (ESSEC) Université du Cameroun en coopération avec l'institut d'administration et de gestion de l'Université de Louvain Douala République Unie du Cameroun	18/04-13/05	Programme régional pour l'Afrique	Etre titulaires d'un diplôme d'ingénieur (ou d'un diplôme équivalent) justifier d'une expérience pratique de trois ans au moins et occuper un poste de responsabilité dans les services de production d'une entreprise industrielle privée ou publique.
Industrial research management	Organization and management of industrial research activities, common managerial problems in industrial research institutions, role and importance of research in the management of industry; public relations; administration of personnel and financial management.	Industrial Research Centres Belgium	18/04-14/05	Interregional programme English	Middle-level managers, department heads and top-level executives of industrial research institutions.
Industrial planning	Technical aspects of industrial planning at different levels. Uniform system of industrial planning on national, sectorial and factory level (long-term forecasts, long-term, medium-term and annual plans). Organs of planning co-ordination of the national industrial development plans at international level.	Institute of Economy of Developing Countries Berlin German Democratic Republic	25/04-20/05	Interregional programme English	Senior positions with government or public enterprises with academic background and/or extensive experience in industrial planning, preferably at national, sectoral and branch levels. Good English.
MAY - MAI - MAYO					
Energy saving in cement industry	The programme will cover pozzolanic materials, Portland cement, binders, specifications and testing of binders and their relation to energy saving, energy saving in raw materials quarrying, preparation and transportation.	CERILH, France CRDC, Ankara, Turkey	02-14/05	Interregional programme English	Senior technical and managerial personnel with relevant engineering degree and engaged in production energy intensive cement and related products.

Normalisation et contrôle de la qualité des produits industriels	Renseignements généraux sur la normalisation, organismes nationaux et régionaux s'occupant de la normalisation et du contrôle de la qualité, qualité et normalisation dans les entreprises, promotion de la qualité par des organismes spécialisés.	Agence de coopération culturelle et technique Ecole Internationale de Bordeaux (France)	02- 27/05	Programme interrégional Français	Cadres administratifs ou techniques, chargés de la normalisation ou du contrôle, au sein des Ministères concernés, des bureaux d'étude, des services de recherche ; ingénieurs, conseillers dépendant des offices ou organismes de promotion de la petite et moyenne industrie ; responsables d'entreprises industrielles, petites ou moyenne concernés directement par les problèmes de normalisation et de contrôle de qualité.
Timber engineering	Timber engineering workshop to familiarize engineers with the basic mechanical and physical properties of wood and the engineering procedures for its use in construction.	CSIRO, Highett Victoria, Australia	02- 20/05	Interregional programme English	Civil or structural engineering degree involved in construction and specification/planning of building programmes.
Small business consultancy	Definition and identification of the characteristic of the small-scale industries in Asia; general management concepts and principles (production management - financial management - personnel management); project study preparation (steps and tools involved in identifying and preparing a project feasibility study and to integrate and evaluate the data gathered); practicum (practical application of the principles of management consultancy using a small or medium scale enterprise as a laboratory); planning and managing a consulting organization; field visits (visits to small manufacturing enterprises in rural areas as well as to the Small Business Industry Center).	Technical Assistance Counsel (TAC) University of the Philippines Institute for Small Scale Industries (UP-ISSI) Manila Philippines	03/05- 01/07	Asian and African LDC's English	Educational background oriented to technological or economical science. Officials from government or private sectors in providing services to small and medium scale industries.

Design, production, operation and repair of agricultural machinery and instruments	Theoretical and practical training in basic principles, methods of organization in design, operation of agricultural machinery and equipment. Testing. Production, repair and maintenance. Study visits to different plants and farms.	The Higher Technical School "Angel Kantchev" Rouse, Bulgaria	09/05-25/06	Interregional programme English	A university degree (or equivalent) in mechanical engineering with at least 3 years of practical experience in the relevant field.
Organization and management of agro-industrial enterprises	Theoretical training on different aspects of agro-industrial enterprises. Organization planning, management financing and investment policy, economic infrastructure. Practical training on organizational aspects of agro-industrial enterprises separate agro-industrial enterprises and food processing plants, study visits to agro-industrial enterprises.	Federal Centre for Agricultural and Industrial Managers' Training Movi Sad, Yugoslavia	09/05-02/07	Interregional programme English	Engineering degree with managerial experience in food processing of at least 3 years.
Methods and techniques of pesticide production and formulation	Development of pesticide chemicals, plant design, environmental considerations, equipment used in pesticide formulation, testing of products, formulation of granular and wettable powders, dusts, aerosols, baits and emulsifiable compositions, packaging, quality control distribution. Study tours to major pesticide industries.	Karl Marx University Leipzig German Democratic Republic	16/05-24/06	Interregional programme English	A university degree (or equivalent) in agricultural or chemical engineering or chemistry and at least 3 years of practical experience in a supervisory or managerial capacity in the production and formulation of pesticides.
JUNE - JUIN - JUNIO					
Methods of extraction and formulation of medicinal plants	Medicinal herbs from spontaneous flora and growing cultures; gathering, drying, conditioning and preservation of medicinal herbs; taxonomical methods for identification of species; methods of extraction; separation and purification of active principles.	UNIDO in co-operation with the Joint UNIDO-Romania Centre and with the Institute for Drug Control and Pharmaceutical Research Bucharest, Romania	06/06-09/07	Programme for LDC's English	University degree in pharmacy and chemistry with at least 2 years of experience.

Project study preparation	The objectives of the course are to identify the data required and sources of such data in the preparations of each portion of the project feasibility study; to acquire a working knowledge of the steps and tools involved and the critical areas to consider in identifying a project opportunity and preparing a project feasibility study; to integrate and evaluate the data gathered into a complete project feasibility.	Technical Assistance Council (TAC) of the Philippines in collaboration with the Institute for Small-Scale Industries of the University of the Philippines (UP-ISSI)	June/ July	Programme for LDC's English	Nationals of eligible countries who are officials from either government or private sector. Professional training and experiences must be related to the preparation and evaluation of industrial projects.
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JULY - JUILLET - JULIO

Création d'entreprises industrielles dans les zones rurales	Examen général des entreprises rurales, rôle des petites et moyennes entreprises dans les zones rurales, étapes de la création d'une entreprise, principales décisions à prendre pour créer une entreprise industrielle rurale, contacts avec les organismes chargés de promouvoir de petites entreprises industrielles.	Agence de coopération culturelle et technique, Ecole Internationale de Bordeaux (dans un pays africain qui n'a pas encore été choisi)	04/07-05/08	Programme Interrégional Français	Responsable d'entreprise industrielle, promoteur d'industrie; cadre moyen (administratif ou technique) ayant une haute motivation à l'approche concrète des problèmes des petites entreprises industrielles au milieu rural et appelé à intervenir auprès de celles-ci comme conseiller dépendant d'une organisation de promotion ou d'assistance.
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Technique de production dans l'industrie pharmaceutique	Le programme sera axé sur la formation des participants aux divers aspects de l'industrie pharmaceutique. Les participants seront répartis en groupes de 5 ou 6, en fonction de leur formation et de leur expérience et affectés à des usines de produits pharmaceutiques pour une durée de quatre semaines, au cours desquelles ils pourront s'initier aux techniques modernes de production industrielle de produits pharmaceutiques et participer aux activités de fabrication. A la différence de la formation dans un laboratoire rattaché à une institution, l'accent sera mis sur la production à l'échelle industrielle. C'est dans le contexte de leurs tâches pratiques et compte tenu de ce qu'ils pourront observer dans l'usine où ils seront affectés que les participants se familiariseront avec les principes de base de la technologie pharmaceutique.	Syndicat national de l'industrie pharmaceutique Paris, France	Juillet	Programme Interrégional Français	Titulaires d'un diplôme de pharmacien, de biologiste, de chimiste ou d'ingénieur chimiste et justifier de 3 à 5 ans d'expérience professionnelle appliquée à la fabrication de produits pharmaceutiques. Les candidats techniciens de production et de contrôle seront choisis de préférence aux candidats titulaires de fonctions exclusivement administratives ou financières.
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AUGUST - AOUT - AGOSTO

Furniture and joinery industries	Insight into efficient industrial serial production and modern techniques of the furniture and joinery industries. Methods for modernization and rationalization of the wood processing sector, the prerequisites for the establishment of this industry in developing countries.	Lahti Institute for Technology Lahti, Finland	08-27/08	Interregional programme English	Candidates should be technical managers in secondary wood processing industries or planners for the wood industry sector.
Protection de l'environnement dans les industries chimiques et pharmaceutiques	Mesure de la pollution de l'air, de l'eau et du sol et analyse des déchets industriels. Formation théorique, travaux pratiques en laboratoire et visite d'usines d'épuration et d'installation pour la protection de l'environnement.	Université d'Etat de Gand, Belgique	08/08-17/09	Programme interrégional Français	Diplôme soit en chimie, biologie, géologie, pharmacie ayant une expérience au niveau de la responsabilité des problèmes de pollution de l'environnement.
Iron and steel industry technology	Theory in technological process of equipment, economic planning, management, maintenance. In-plant training in foundry, blast furnace, sintering plant, open hearth plant, rolling mills, refractory maintenance.	Zaporoz-Steel Zaporozhye Ukrainian Soviet Socialist Republic	23/08-17/11	Interregional programme English	Metallurgical, chemical, electrical, mechanical engineering degree and directly engaged in one of the production activities. Technical fields of iron and steel industry. Practical experience minimum 3 years.

SEPTEMBER - SEPTEMBRE - SEPTIEMBRE

Cotton textile industry	Cotton materials and blends, weaving and spinning and knitting processes, development and application of textile machinery. The theoretical and practical training will also cover quality control, management, repair and maintenance, ergonomics, recycling, pollution and energy saving.	CERTIATES Pordenone, Italy	05/09-02/12	Interregional programme English	Textile, chemical or mechanical engineering degree with at least three years practical experience, holding managerial/supervisory position in weaving.
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Entretien du matériel ferroviaire	Le programme portera essentiellement sur les problèmes liés à l'achat et au stockage du matériel, les activités dans les ateliers, la surveillance des travaux, l'utilisation d'ordonateurs, la formation pratique de personnel et les principes économiques fondamentaux de l'entretien et de la réparation du matériel roulant. On prévoit également des visites d'études dans des entreprises spécialisées dans la fabrication de matériel ferroviaire.	Société Nationale des Chemins de Fer Belges (SNCF), Bruxelles Belgique et Régie du Chemin de Fer Abidjan-Niger en collaboration avec l'Union Africaine des Chemins de Fer (UAC) Abidjan, Côte d'Ivoire et Bobo Dioulasso Haute Volta	05/09 18/11	Programme régional pour l'Afrique Français	Etre titulaires d'un diplôme d'ingénieur (ou d'un diplôme équivalent), justifier d'une expérience pratique de deux ans au moins et occuper un poste de cadre technique ou administratif. Préférence sera donnée aux candidats ayant déjà une expérience pratique de l'entretien et de la réparation du matériel roulant de chemin de fer.
Technology and equipment in electric welding	Technology and equipment for electric fusion, resistance, welding processes, modern welding, arc power resources, welding material and structures, constructive technological designing of welded material etc. In-plant training in plants manufacturing electric welding equipment, metal-working industry as well as laboratories.	E.O. Paton Electric Welding Institute Kiev Ukrainian Soviet Socialist Republic	05/09- 12/12	Interregional programme English	A university degree (or equivalent) in electrical, mechanical, metallurgical or structural engineering, with at least 3 years of practical experience related to electric welding.
Measurement training for transfer of practical experience	Promotion, catalyzing and development of education and training programmes in metrology and instrumentation; maintenance and calibration of measuring instruments, methods, principles and procedures of installation, maintenance and calibration laboratories.	Inter-University Centre (IUC) of the University of Zagreb Dubrovnik Yugoslavia	12- 17/09	Interregional programme English	Technicians and plant engineers dealing directly or indirectly with maintenance and/or calibration of measuring instruments.

Technology and equipment in rice processing industry	The following topics will be covered by the curriculum: major trends in the development of the grain-elevator and rice-processing industry; characteristics and range of rice mill products; modern rice grain and hulled-rice starch technology; modern types of rice granaries; modern technological equipment for rice-processing enterprises; basic flow-charts for rice-processing; preventive maintenance of equipment at rice-processing enterprises; quality control.	Institute for Advanced Training of Managers and Specialists of the Ministry of State Purchases, Moscow (with visits to Kiev, Leningrad, Krasnodar, Slavynsk-na-Kubani and Krasnoarmeiskaya) Union of Soviet Socialist Republics	12/09-09/12	Interregional programme English	Engineers and technicians (a university level degree or equivalent) and at least 3 years of practical experience in a supervisory or managerial capacity in the rice processing industry.
Industrial planning and development	Macro-planning and strategy oriented course. Long-term development issues of industrialization, industrial strategies and planning, industrial incentives and promotional policies, issues on technology transfer and labour employment, issues of financing industrial development, project preparation, project appraisal, field trip and workshop.	International Development Centre Tokyo, Japan	19/09-12/11	Interregional programme English	Industrial development economists at government organizations and public institutions for industrial development and implementation. Applicants aged between 30 and 45 years. Good English. University or college graduates or equivalent with basic knowledge and more than three years of practical experience in industrial development.
Documentation et information industrielles	Rôle de l'information dans le développement industriel méthodes de recherche et d'extraction des données et leurs applications pratiques, méthodes de classification, systèmes d'information pour l'industrie. Visites d'instituts spécialisés chargés de fournir des renseignements à l'industrie.	Agence de Coopération Culturelle et Technique, Ecole Internationale de Bordeaux France	19/09-09/12	Programme interrégional Français	Diplôme universitaire technique économique ou scientifique (ou des connaissances équivalentes) et avoir quelques années d'expérience pratique dans le domaine de l'information et de la documentation scientifiques et technologiques, acquise soit en travaillant dans des centres d'information, soit en aidant à en organiser.

Organization and management of industrial co-operatives	Through theoretical and practical training it is expected to provide training in the organization, management of industrial co-operatives on areas such as food processing, garments, leather and leather goods, metalworking.	Bulgaria	20/09-30/10	Interregional programme English	University degree in economics, industrial management with at least 3 years practical experience in organization and management of industrial co-operatives and currently employed in these functions.
Methods and technology in the printing industry	Production of newspapers, periodicals, books (including text-books and other printed material); planning and design of printing houses; tasks and problems in the training of specialists for the graphic arts industry; standardization and quality control in the graphic arts industry. In addition to theoretical training, study visits, practical training will be arranged to plants manufacturing printing machinery and to printing houses.	VEB Polygraph Leipzig German Democratic Republic	26/09-14/10	Interregional programme English	A university degree or equivalent in the field of printing industry. Managerial or high level technical positions in the printing industry or senior officials of a public or private printing organization with at least 2 years of practical experience.
Management of industrial training	The concept of education and training - manpower planning and in-company training concept - programme development - evaluation of training - training of trainers - applications in training - training as an investment role of government, employers and trade unions in training - participant lecturing. Study visits are planned to industrial plants training centres, technical schools and institutions in which it will be included training exercises.	The Austrian Institute for Assistance and Technical Cooperation with Developing Countries	26/09-21/10	Programme for LDC's English	Educational background oriented to technological or economic science. Responsible for the planning and co-ordination of training activities at regional or sectoral industrial level or advisory to the policy making organ dealing with industrial training.
Cement industry technology	The programme concentrates on technical aspects of cement industry and includes technical subjects such as feasibility studies, raw materials, production management technologies, quality control, maintenance, energy conservation, pollution and polluted control.	Cement Research and Development Centre Ankara, Turkey	29/05-17/11	Interregional programme English	Chemical, mechanical, electrical or relevant branch of engineering degree; one to five years practical experience and employed with cement industry.

OCTOBER - OCTOBRE - OCTOBRE

Small-scale foundry operations	The following items will be covered by the curriculum; solidification in casting; feeder, riser and gating design; pattern making and pattern material; moulding and moulding materials; cast-iron and its melting and casting; steel and its melting and casting; copper alloys and their melting and casting; aluminium alloys and their melting and casting; special moulding and casting techniques such as investment casting, shell moulding, plaster mould casting; casting defects; quality control in foundries; vacuum melting and casting.	Marmara Scientific and Industrial Research Institute Istanbul and Higher Technical Teacher's School for Men, Ankara, Turkey	03/10-11/11	Programme for least developed countries English	Foundry or metallurgy degree, supervisory or planning functions for operating and establishing small-scale foundries with at least one year practical experience.
Industrial facilities planning	The training programme will cover the following subjects: planning of industrial facilities (how to develop a functional industrial site), systematic layout planning (an effective procedure for planning the layout of offices, warehouses and production areas), materials management and logistics (analysing the flow of materials in order to arrive at the most economical production and distribution arrangement.	National Institute of Business Management Colombo, Sri Lanka	03-15/10	Interregional programme English	Engineering degree and a position related to planning of industrial facilities with at least 3 years experience.
Engineering and industrial design	Theoretical introduction on product design, tool design, production engineering and manufacturing of prototype products and tools. Practical study assignments in design offices and laboratories for metallurgical testing and/or workshops.	Engineering and Industrial Design Development Centre Cairo, Egypt	10/10-11/12	Interregional programme English	Degree in mechanical engineering or engineering degree with at least 3 years of experience.
Sugar (beet) production	The programme will be carried out both in sugar plants and a sugar research institute and consists of theoretical and specialized actual practical in-plant training as well as study visits and an evaluation seminar. It will concentrate on both economical and technical aspects, including feasibility studies, raw material surveys, maintenance, production technologies and quality control.	Sugar Research Institute Ankara, Turkey	19/10-23/11	Interregional programme English	Chemical, agricultural, mechanical or electrical engineering with at least 2 years practical experience and presently employed directly in the production of sugar.

Training of trainers for public enterprises	Training of trainers seminar on implementation of training in public enterprises in developing countries, with particular emphasis on training institutions of the developing countries involved in UNIDO's "Centres of Excellence" programme.	International Centre for Public Enterprises (ICPE) Ljubljana, Yugoslavia	25/10-04/11	Interregional programme English	Top manager of training institutions in developing countries. Extensive experience in the formulation as well as the conduct of training programmes courses designed for the personnel of public enterprises of developing countries.
Production and application of synthetic fibres	The programme will cover the latest technological developments in the field of synthetic fibres and will consist of a theoretical part and laboratory and in-plant studies to familiarize them with the production and processing equipment.	Vienna Austria	October/November	Interregional English	University degree or equivalent higher educational background in synthetic fibres technology or chemical or mechanical engineering.
Plastics technology	The programme is designed mainly to emphasize plastics fabrication technology incl. the use and selection of modern processing equipment, quality control and testing as well as various applications of plastics. A special small group will also be trained in the field of mould design and mould making.	Vienna Austria	October/November	Interregional English	University degree or equivalent educational background in plastics technology or chemical, mechanical engineering, with at least 3 years experience in industry.
NOVEMBER - NOVEMBRE - NOVIEMBRE					
Technical transfer and promotion of electrical industries	Utilization of experience of the New Government Electrical Factory (NGIF) Ltd. in Bangalore as well as encouraging further development of co-operation between India and other developing countries in the electrical industry.	UNIDO with the New Government Electrical Factory Bangalore, India	07-26/11	Interregional programme English	Senior personnel involved in technology application and transfer in electrical industries.

Formation des
formateurs dans
les entreprises
publiques

Séminaire de formation des
formateurs sur l'exécution des
programmes de formations dans
les entreprises publiques dans
les pays en voie de développe-
ment, plus particulièrement
avec les institutions de
formation des pays en développe-
ment concernées par le programme
de Centre d'Excellence de l'ONUDI.

Centre International
pour les Entreprises
Publiques (CIEP) et
Institut Supérieur de
Gestion
Tunis, Tunisie

29/11-
04/12

Programme
interrégional
Français

Directeur des instituts ou
centres de formation/perfec-
tionnement industriel. Ayant
une bonne expérience dans
l'élaboration et l'exécution
de programmes de formation
destinés au personnel des entre-
prises publiques dans les pays
en voie de développement.

DECEMBER - DECEMBRE - DICIEMBRE

State intervention
in the national
economy

Management system of the
state-held companies; their
function at both enterprise
level and at that of state's
intervention formula; their
characteristics and their
operational mechanisms;
relevance of the Italian
example.

Instituto per la
Formazione e
l'Aggiornamento
Professionale (IFAP/IRI)
Rome, Italy

05-
16/12

Interregional
programme

English

Participants should hold a
senior managerial position in
public enterprises or should be
officials of Governmental or
public institutions. Profes-
sionally or organizationally
engaged in the management of
public enterprises. Capacity to
influence the establishment,
promotion and expansion of
management of public enterprises
as an asset.

DATES NOT YET SPECIFIED
DATES NON ENCORE PRÉCISES
FECHAS TODAVIA NO DETERMINADAS

<p>Identification, preparation and evaluation of development projects</p>	<p>The course will cover the various phases in the development of projects and the methods of preparing feasibility studies. In project evaluation, a distinction will be made between financial or commercial evaluation, from the standpoint of the entrepreneur, and what is termed socio-economic evaluation, from the standpoint of the national economy. Methods of promoting and financing the projects which have been selected will then be considered, and finally the various aspects of project management - technical, contractual and legal - will also be studied.</p>	<p>UNIDO in collaboration with the Economic Department of the PLO Damascus Syrian Arab Republic</p>	<p>4 weeks</p>	<p>Programmes designed for Palestinian participants</p> <p>English</p>	<p>Engineers and economists involved in the planning and the evaluation of industrial projects having at least one year experience in the subject.</p>
<p>I.S.O. technical committees meetings</p>	<p>The following fields will be covered by these meetings: steel, tractors and machinery for agriculture and forestry, solid mineral fuels, agricultural food products, paints and varnishes, textiles, rubber and rubber products, essential oils, sawn timber and sawn logs, applications of statistical methods, mining, fibre building boards, iron ores, freight containers, leather, packaging, tobacco and tobacco products, aluminium ores and minerals, fertilizers and soil conditioners, plywood, air quality, water quality, cycles, particle boards, quality assurance and solar energy.</p>	<p>UNIDO in co-operation with the International Organization for Standardization</p>	<p>Exact dates and duration depending on each meeting</p>	<p>Interregional programme</p> <p>English</p>	<p>Officials of national standard bodies or specialists in standardization.</p>
<p>Promotion and financing of small-scale enterprises in Asia and the Pacific</p>	<p>Lecture-cum-discussions seminar with emphasis on case studies; one-week in-house placement and plant visits; one-week concluding seminar. Major subjects covered: 1) the role of small-scale enterprises in economy; 2) advantages and potentials of SSE; 3) internal and external problems of SSE; 4) project planning, identification and evaluation; 5) project implementation, documentation disbursement; 6) rehabilitating of distressed projects.</p>	<p>Association of Development Financing Institutes in Asia and the Pacific Manila, Philippines</p>	<p>6 weeks</p>	<p>Regional Asia</p> <p>English</p>	<p>Staff of managerial development banks, members of ADFIAP</p>

Promotion et financement des petites entreprises en Afrique	Séminaire comprenant des exposés et des séances de discussion, axés sur des études de cas ; stage d'une semaine dans une entreprise et visites d'usines ; session d'évaluation d'une semaine. Principaux sujets traités : 1) rôle des petites entreprises dans l'économie 2) avantages et possibilités des petites entreprises 3) problèmes internes et externes des petites entreprises 4) planification identification et évaluation des projets 5) mise en oeuvre des projets, remboursement des frais de documentation 6) réactivation de projets en souffrance.	Association Africaine des institutions de financement du développement Abidjan, Côte d'Ivoire	6 semaines	Régional Afrique Français	Personnel de Direction ou de Banques de Développement membre de l'AIAFD.
Energy management	The programme consisting of lectures, discussions and field trips/plant visits will focus on the ways and means of achieving higher energy productivity and in managing of energy usage.	Technical Assistance Council and Productivity Development Centre and Communication Technologies Inc. Manila, Philippines	1 month	Programme for LDC's English	University degree in mechanical, electrical or chemical engineering. 2 years experience in plant or production engineering or consultancy management at plant level.
Machine rebuilding and maintenance	The course will provide through theoretical and practical training the basic knowledge on machine fitting, rebuilding and its allied practices and general maintenance procedures. It will also familiarize the participants with the actual maintenance and repair procedures and workshop practice.	Technical Assistance Council and Metals Industry Research and Development Centre Manila, Philippines	4 months	Programme for LDC's English	Engineering degree or equivalent; few years of practical experience in machine maintenance.
Management in industrial co-operatives	Organization and management systems, rules and regulations governing industrial co-operatives. Financing and selection of appropriate technology, production and marketing. The programme will cover the industrial sectors of furniture, leather, agro-industry and clothing and will consist of theoretical and in-plant training as well as study visits.	Central Union of Work Co-operatives Warsaw Poland	8 weeks	Programme for Palestinian participants English	University degree or equivalent 1 year practical experience in organization and management of industrial co-operatives.

CHAPTER 2: TRAINING OPPORTUNITIES OFFERED BY INSTITUTIONS OTHER THAN UNIDO
 CHAPITRE 2 : POSSIBILITES DE FORMATION OFFERTES PAR DES INSTITUTIONS AUTRES QUE L'ONUDI
 CAPIYULO 2: OPORTUNIDADES DE CAPACITACION OFRECIDAS POR INSTITUCIONES DISTINTAS DE LA ONUDI

A. INDUSTRIAL BRANCHES - SECTEURS INDUSTRIELS - RAMAS INDUSTRIALES

BUILDING MATERIALS INDUSTRIES
 INDUSTRIE DES MATERIAUX DE CONSTRUCTION
INDUSTRIAS DE LOS MATERIALES DE CONSTRUCCION

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Matériaux composites	Fabrication ; évaluation des propriétés ; applications. Le choix d'un ou de plusieurs matériaux provenant d'un pays en voie de développement déterminée est effectué sur place. Les matériaux choisis sont susceptibles d'être utilisés pour la fabrication de composites et présentent un intérêt économique pour le pays d'origine.	C.R.I.F. Rue du Chéra, 200 B-4000 Liège Belgique	A arranger 5 mois	Qualifications professionnelles et expérience de la construction Français ou anglais	-	\$US 5,000
L'industrie de la construction	Recherche technique appliquée dans les domaines suivants : matériaux, structures, équipements et confort acoustique et thermique. Planification des chantiers et gestion des entreprises.	Centre Scientifique et Technique de la Construction Rue du Lombard 41 1000 Bruxelles Belgique	A arranger 3 mois	Ingénieur civil ou architecte. Français, anglais, néerlandais	-	A arranger
Anti-corrosion measures in the building industry	Corrosive damages of structural materials applied in the building industry, control systems necessary for protection against corrosion, protection planning against corrosion.	Institute for Geodesy and Geotechnics Reviczky u.4 1088 Budapest, Hungary	June 1983 1 month	Engineers, technicians. English	December 1982	To be arranged
Cement industry	In-plant training programme in cement technology.	State Cement Corporation of Pakistan Lahore, Pakistan	June, July each year Up to 24 months	Professional qualification. English	-	-

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Construction management	Post-graduate training in construction management at three levels.	Centre for Housing Planning and Building National Housing Secretariate 5 Chittampalam Gardiner, Colombo 2 Sri Lanka, in co-operation with Bouwcentrim International Education (BIE), P.O. Box 299 Rotterdam, Netherlands	Several times a year 6, 8 or 12 weeks	Diploma in the building discipline, relevant working experience. English	-	To be arranged
Cement industry	Economical and technical aspects of cement industry including feasibility studies, raw material surveys, management, maintenance, production technologies, quality control, energy conservation and pollution control.	General Directorate for Cement Industry Ankara, Turkey	September 2 months	Professional qualification. English	-	-
Concrete technology, design, construction	Approximately 100 different short courses and seminars.	Cement and Concrete Association Training Centre Fulmer Grange Fulmer Slough SL2 4QS United Kingdom	Throughout year 1983 and 1984 1 day-13 weeks	Professional qualification. English	-	Normally £300 + 15% VAT, for 5 day residential course including accommodation
Concrete and concrete constructions	Intended for people who are involved in concrete work in a supervisory or technological role, particularly personnel from the developing countries. a) Concrete laboratory work; b) site construction and supervision; c) pre-cast concrete.	Cement and Concrete Association Training Centre Fulmer Grange Fulmer Slough SL2 4QS United Kingdom	Late February 1983 and 1984 13 weeks	Professional qualification. English	-	£5,830.50

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Construction materials	Technology and testing of construction materials including soils, cement, concrete, aggregates, asphalt. Part I: 13 weeks, covering basic technology and standard tests. Part II: 13 weeks, covering more advanced technology and testing followed by individually planned programmes for each participant.	Laing R + D Training Centre Manor Way Borehamwood Hertfordshire WD6 ILN United Kingdom	Part I 3rd week in September 1983 and 1984 13 weeks. Part II 1st week in January 1984 and 1985 13 weeks	Technical or professional qualification. English	-	1983/84 Part I £5,750 + VAT (provisional) Part II £5,750 + VAT (provisional) 1984/85 Part I £6,500 + VAT (provisional) Part II £6,500 + VAT (provisional) Fee includes food and accommodation

CHEMICAL INDUSTRIES
INDUSTRIE CHIMIQUE
INDUSTRIAS QUIMICAS

Metodología de radioisótopos	Enseñanza teórica; clases de problemas; trabajos prácticos.	Departamento de Fisicomatemática. orientación Física Laboratorio de Radioisótopos de la Facultad de Farmacia y Bioquímica (UBA) Junín 956 Buenos Aires Argentina	Iniciación Mes de julio Duración 4 meses y 1/2	Ser graduado universitario. Castellano	15 de junio	\$2,500,000 ó 3 cuotas de \$1,000,000 cada una (se actualiz anualmente)
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Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Tecnología de los plásticos - técnico en plásticos	Primer año: física aplicada; fabricación y conocimiento de materiales: química de plastómeros; estudio y ensayo de materiales; equipos; moldeo de plásticos I: moldeo termoendurecibles, extrusión I; inyección I; laboratorio I. Segundo año: herramental para moldeo de plásticos; equipos II; moldeo de plásticos II: termoformado; extrusión; calandrado; inyección II; control de calidad; operaciones complementarias; laboratorio II.	INSTIPLAST Instituto Técnico Argentino de la Industria Plástica Inclán 4233 1258-Buenos Aires Argentina	Abril 1983 2 años	Profesionales universitarios técnicos. Español	-	A fijar
Plastics technology and mould design	Technology transfer and development in plastics technology; plastics chemical technology; plastics physical technology; mechanical engineering and mould design; plastics engineering; polymer physics; control engineering; training methods; trouble analysis; compounding and calandring; computation engineering; control techniques; extrusion; finishing; foaming; injection and compression moulding; machining and forming; mould making; polymer chemical analysis; polymer physical analysis; quality control; reinforced plastics; trouble shooting.	LKT-TGM Laboratorium für Kunststoff-technik Wexstrasse 19-23 A-1200 Vienna Austria	October 2 months	Professional qualification. English	-	To be arranged
Plastics technology and polymer engineering	Applied R & D. 160 applied research projects in procedure engineering and control engineering (injection moulding, extrusion, foaming, compounding, forming, casting); plastics application (mechanical engineering, electrical engineering, agriculture, ecotechnology, marine technology, transformation and storage of energy, bio-medical application); testing (quality control methods); polymer physics (X-ray diffraction, electron microscopy, DSC); polymer chemistry (analysis); environmental technology (recycling, reuse of waste and litter, combustion, protection); training technology.	LKT-TGM Laboratorium für Kunststofftechnik Wexstrasse 19-23 A-1200 Vienna Austria	January, September 12 weeks	M.Sc., PhD. in science and 2 years in research experience. English, German, French	-	To be arranged

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Transfer of chemical technology to developing countries	History, objectives, motivation and realization of the transfer of chemical technology. Costs of know-how and engineering, flow sheets of chemical processes, models for implementation. Measures to be taken by the developing country, based on infrastructure, natural resources, etc.	Technical University of Vienna, Institut f. Verfahrenstechnik u. Technologie der Brennstoffe Getreidemarkt 9 1060 Vienna, Austria	Summer semester 1983 28 hours	University degree. German	-	-
Technologies nouvelles	Les technologies nouvelles comportant les technologies de mise en forme des matières plastiques, du moulage des alliages non-ferreux, du travail du verre, de la fabrication des outillages. Conception et dimensionnement de pièces en matériaux nouveaux. Contrôle de qualité - Traitement des données technologiques par l'informatique.	C.R.I.F. Rue du Chéra, 200 B-4000 Liège Belgique	A arrange 5 mois	Qualifications professionnelles. Français, anglais	-	\$US 5,000
Pharmaceutical technology	Preparation of ampoules and perfusion solutions, ointments, solutions for ophtaline use. Study of granulation, manufacturing of capsules, tableting. Control of the production of drugs. Planning for production of antibiotics, sulfonamides, antiseptics. Organisation and starting of semi-industrial pharmaceutical plants. Scientific visits to pharmaceutical plants.	Department of Toxicology State University of Ghent Hospitaalstraat 13 B-9000 Ghent Belgium	To be arranged 3 months approx.	Pharmacist, chemist or chemical engineer. English or French	-	8f.40,000 approx.
Chemical analysis of mineral samples	Course and practical training in chemical analysis of ores and mineral samples: titrimetry, electrolysis, polarography, spectrophotometry, atomic absorption, fluorimetry, plasma emission spectrometry, etc.	Université Catholique de Louvain Laboratoire de Traitement des Minerais Place Ste Barbe 2 B-1348 Louvain-la-Neuve Belgique	To be arranged variable	Graduates in chemistry. English, French, Spanish	-	To be arranged

CHEMICAL INDUSTRIES (Cont'd)

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Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Methods and techniques of pesticide production and formulation	Development of pesticide chemicals, plant design, environmental considerations, equipment used in pesticide formulation, testing of products, formulation of granular and wettable powders, dusts, aerosols, baits and emulsifiable compositions, packaging, quality control, distribution. Study tours to major pesticide industries.	Karl Marx University Leipzig, German Democratic Republic	May, June 6 weeks	Professional qualification. English	-	To be arranged
Chemistry and plastics	Chemistry including e.g. processing of basic materials and dyes, production of chemical fertilizers, pharmaceutical and cosmetic industry, manufacture of rubber products; plastics processing.	Carl Duisberg-Gesellschaft and Zentralstelle für Arbeitsvermittlung der Bundesanstalt für Arbeit Hohe, staufenring 30-32 D-5000 Köln 1 Federal Republic of Germany	To be arranged 12-18 months incl. language training	Technical and management personnel who have completed professional training and have practical professional experience. German	-	To be arranged
Management in fertilizer industries	Series of courses on: marketing management; logistics of fertilizer distribution; management of rainfed areas; management of salt affected soils; plant management; fertilizer promotion; instrumentation; maintenance.	Fertilizer Association of India (FAI) Near JNU, New Delhi India various cities in India	April-September 1983 2-13 days	Professional qualification. English	-	Rs 700 - Rs 7,500
Process instrumentation and control in fertilizer industries	Pneumatic instrumentation; pressure measurement; temperature measurement; level measurement; flow measurement and control valves; control theory of above subjects; process control system; fundamentals of electronics; transistors; semiconductors; oscillators, etc. practical work.	Fertilizer Corporation of India Ltd. Sindri Unit P.O. Sindri Dist. Dhanbad (Bihar), India	To be arranged 3 months	Professional qualification. English	-	To be arranged
Paint and varnish technology	Theoretical and practical instruction in manufacture and testing of paints, varnishes, enamels etc. followed by 6 months in-plant training.	Industrial Research Laboratory Directorate of Industries Government of West Bengal Caval South Rd. Calcutta 15, India	6 June each year 24 months	Professional qualification. English	-	Rs 15 per month

CHEMICAL INDUSTRIES (Cont'd)

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Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Petrochemical industry (in-plant group training programme for engineers)	Sources of raw materials, basic technological processes, planning and organization, quality control, maintenance and repairing, corrosion and corrosion prevention, labour protection, pollution and neutralization methods. In-plant training in the field of petrochemicals, chemical fertilizers and fibres.	Joint UNIDO-Romania Centre Blvd. N. Balcescu No. 16 70121 Bucharest Romania	To be arranged 8 weeks	Professional qualification. English	-	-
Petroleum technology	Course for young chemical engineers and chemists, mainly from developing countries, wishing to acquire up-to-date specialization in petroleum refining and petrochemical fields, especially in teaching, research, design, processing and management.	Oil and Gas Institute Ploiesti Bd Bucuresti No. 39 2000-Ploiesti Romania	December 1983 11 months	University graduates in chemical engineering or chemistry. English	September 1983	-
Trade and technology policies in the pharmaceutical sector	Policy and planning issues in the field of pharmaceuticals.	UNCTAD Advisory Service on Transfer of Technology Palais des Nations CH-1211 Geneva 10 Switzerland	Second quarter 1983 (to be confirmed)	Participants are officials from developing countries nominated by their Governments upon invitation by UNCTAD. English	-	-
Extraction technology	Lectures and practical works on liquid-liquid and solid-liquid extractions. A review of recent development in the technique for chemical technologists working in industry.	Department of Chemical Technology and Institute de Chemie Genie, Toulouse Venue: Department of Chemical Technology, Faculty of Science, Chulalongkorn University, Bangkok, Thailand	26 July 1983 5 days	Professional qualification. English	June 1983	To be arranged
Fluidisation technology	Lectures and practical works on fluidization and its application in industry. A review of advanced technique for chemical technologists working in chemical industries.	Department of Chemical Technology and Institute de Chemie Genie, Toulouse Venue: Department of Chemical Technology, Faculty of Science, Chulalongkorn University, Bangkok, Thailand	26 July 1984 5 days	Professional qualification. English	June 1984	To be arranged

CHEMICAL INDUSTRIES (Cont'd)

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Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Fertilizer industry	Fertilizer technology; production processes; maintenance; instrumentation; pollution control; electronics and electricals; material handling; industrial safety; management concepts.	Azot Sanayii TAŞ Egitim Merkezi Kütahya, Turkey	October 1984 3 months	Professional qualification. English	February 1984	To be arranged
Instrumentation for chemical analysis	An initial session in the polytechnic covers the general technology of instrumentation followed by industrial attachments. A final session examines the relevance of instrumentation in analysis and also concentrates on the specific equipment for spectroscopy and chromatography.	British Council (ITPU) with the Department of Science Bristol Polytechnic Coldharbour Lane Bristol BS16 1QY United Kingdom	June annually 20 weeks	City and guilds laboratory technician level or equivalent. English	-	£3,000 approx.
Science laboratory technician training	General chemical techniques; general techniques in physics; general biochemical techniques; general techniques in botany and zoology; laboratory management; photography; glassworking; workshop skills; basic electronics; radioactive techniques; microbiology; histology; animal handling; geological techniques.	Technician Training Committee Imperial College of Science & Technology South Kensington London SW7 2AZ United Kingdom	September or by arrangement 1-3 years	Basic laboratory knowledge. English	-	£2,400 p.a. full-time fee or by arrangement
LNG technology	Intensive training in fundamentals and techniques of cryogenic engineering relating to production, transportation and handling of LNG and other hydrocarbons.	Institute of Cryogenics University of Southampton Southampton SO9 5NH United Kingdom	October 3 months	Good science or engineering degree. English	-	On application

ELECTRICAL AND ELECTRONIC INDUSTRIES
INDUSTRIES ELECTRIQUES ET ELECTRONIQUES
INDUSTRIAS ELECTRICAS Y ELECTRONICAS

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Industrial engineering	Courses on: microprocessor application; printed board production; power supplies; design of electronic circuits; microprocessor process control systems; colour TV; components test; measurement and control; signal generators; digital electronics in industrial engineering; osc. applications.	Electronic Industries R & D Center P.O. Box 773 Cairo, Egypt	Throughout year 1-5 weeks	Professional qualification. English, Arabic	-	\$US 30 - \$US 300
Electrical engineering and energy supply	Construction of electric machines and transformers; construction of electric equipment; projecting and designing, construction and commissioning as well as maintenance, overhaul and inspection of electric installations including equipment for energy generation and distribution; operation of energy generation and distribution equipment; electrical resp. electronic and control in all fields of application.	Carl Duisberg-Gesellschaft and Zentralstelle für Arbeitsvermittlung der Bundesanstalt für Arbeit (Central Office of the Federal Labour Exchange), CDG Postfach 190 325 D-5000 Köln, Federal Republic of Germany	To be arranged About 12-18 months	Professional qualification. German	-	To be arranged
Electromechanical equipment	Biomedical fundamentals; therapy equipment; equipment used during operations; lung function equipment; medical accessories and equipment.	Training Centre for Maintenance of Medical Equipment P.O. Box 150 1389 Budapest 62 Hungary	12 September 1983 4 weeks	Professional qualification. English	1 February 1983	\$US 1,200
Electromedical equipment	Biomedical fundamentals; electrocardiological equipment; intensive patient care units; electromyography equipment; electroencephalographs; blood-diagnostical equipment; laboratory automats; audiometers; complex diagnostic equipment.	Training Centre for Maintenance of Medical Equipment P.O. Box 150 1389 Budapest 62 Hungary	3 October 1983 5 weeks	Professional qualification. English	1 February 1983	\$US 1,500

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
General knowledge of X-ray equipment	Fundamentals of X-ray physics and photometry; terminologies of X-ray equipment; X-ray electrical components of drawing; radiation and electric shock protection; X-ray anatomical equipment and instruments in general; X-ray anatomical knowledge; facts influencing image quality; processing of X-ray films; electric network of hospitals to the settling of X-ray equipment; service instruments of X-ray equipment.	Training Centre for Maintenance of Medical Equipment P.O. Box 150 1389 Budapest 52 Hungary	8 November 1983 5 weeks	Professional qualification. English	1 February 1983	\$US 1,500
Electronics	Long term courses: domestic electronics; industrial electronics; process instrumentation. Short term courses: maintenance and servicing of TV receivers; operation and maintenance of CCTV equipment; hi-fi equipment; process instrumentation control; temperature instrumentation; industrial hydraulics; solid state power electronics; digital electronics; digital linear I.C.s; digital and microprocessor; maintenance and repair of measuring and test instruments; computer programming; microprocessor and its applications.	Advanced Training Institute for Electronics and Process Instrumentation Ramanthapur Uppal Rd. Hyderabad 500991 India	Throughout year 1-4 weeks	Professional qualification. English	-	To be arranged
Electronics	Theoretical, laboratory and industrial training.	Philips International Institute Eindhoven Netherlands	Mid-January 1-1 1/2 years	University degree. English	1 September	-
Practical electronics for technicians	Basic electronics; repair work; electrical power; laboratory; special jobs as requested.	Technician Training Committee Imperial College of Science & Technology South Kensington London SW7 2AZ United Kingdom	September or by arrangement 1-3 years	Basic workshop knowledge. English	-	£2,400 p.a. full-time fee or by arrangement

FOOD PROCESSING INDUSTRIES
INDUSTRIE ALIMENTAIRE
INDUSTRIAS ALIMENTARIAS

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Tecnología de alimentos	El curso comprende los fundamentos químicos de la tecnología de alimentos, las operaciones ingenieriles aplicadas a los procesos de preservación de alimentos; control químico y de calidad en la industria de alimentos, control microbiológico general y microbiología aplicada específicamente a los diferentes productos alimenticios.	Instituto de Tecnología de Alimentos c.c 428 - Paraje "El Pozo" 3000 Santa Fe Argentina	Marzo 1983 10 meses	Título superior universitario, ej. ing. químico. Español	-	\$US 2,000
Industrie sucrière de la betterave et technologie de la fabrication du sucre à partir de la betterave sucrière	Au cours de la campagne sucrière stage de formation technique orienté vers les aspects chimiques, technologiques et mécaniques de la fabrication du sucre au Centre de documentation technique de l'industrie sucrière ; laboratoire d'analyses de contrôle de la fabrication du sucre ; laboratoire de la recherche appliquée ; différentes étapes de la fabrication en sucrerie et raffinerie.	S.A. Société Sucrière d'Etudes et de Conseils Aandorenstraat 1 3300 Tienen (Tirlemont) Belgique	Octobre à décembre (cette période correspond à la campagne sucrière) variable	Diplôme universitaire ou équivalent. Français	-	A arranger
Sugar industry	Courses on: electricity at sugar mill; mechanical work at mill; boilers; instrumentation; maintenance; production.	Société des Sucreries et de Distillerie d'Egypte 12 Gawad Hosni Str. Cairo, Egypt	January 1983 3 months	Professional qualification. English	-	To be arranged
Microbiologie des aliments	Analyse bactériologique des denrées alimentaires ; analyse des eau d'alimentation et systématique bactérienne spécifique ; microbiologie des eaux d'alimentation des eaux de baignade, microbiologie des poissons et coquillages ; microbiologie des viandes et produits carnés.	Institut Pasteur de Lille 15, rue Camille Guérin, B.P. 245 59019 Lille Cedex France	Avril, septembre et octobre 1983 1-2 semaines mai et octobre 1984, 1-4 semaines	Qualifications professionnelles. Français	-	A fixer

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Food technology including fish processing	A higher level course to train senior operatives and managers for food processing plants, research establishments, etc.	Central Food Technological Research Institute Mysore, India, in collaboration with FAO	June every year. To be arranged	Graduates in sciences or equivalent. English	-	To be arranged
Fish technology and quality control	FAO/DANIDA regional workshop on fish technology and quality control.	FAO Via delle Terme di Caracalla 00100 Rome, Italy	6 April 1983 4 weeks East Africa 1 August 1983 4 weeks Somalia 1984 6 weeks West African countries 1984, 1 month one East African country, 1984 1 month one West African country, 1984 6 weeks Asia and South Pacific countries	Professional qualification. English Selection of participants to be made by Governments of countries in region	-	-
Agroindustrial training	Premises and common techniques; conserving; and transforming horticultural products; production and treatment of meats; assistance to food production.	International Polytechnic for Industrial and Economic Development P.O. Box 6; 60035 Jesi (Ancona) Italy	15 January 1983 11 months	Professional qualification. English Italian	-	-

Course or Seminar	General description	Organizer; Venue	Commencing date: Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Foodstuff industry	A. Plant design and construction: theoretical and practical training in the design and construction of industrial plant, engineering work, technologies and know-how in the agricultural foodstuff sector; the courses will be held in design and consulting firms, and in agricultural production and foodstuff companies. B. Production and marketing: training in agricultural production and foodstuff plants and farms, in the problem of linking agriculture and produce processing; and production, marketing and distribution problems relating to industrial agricultural products, and specific aspects of production and marketing technologies.	Istituto per la Ricostruzione Industriale (IRI) Direzione Estero Ufficio Cooperazione Tecnica Internazionale Via Veneto 89 00187 Rome, Italy (Rome and other towns in Italy)	24 January 1983 5 months	Advanced technical education or university degree and 5 years experience. Italian, French, English, Spanish	-	To be arranged
Technology of sugar and alcohol production	Cultivation of sugar beet; process and quality control; beet sugar technology; sugar plant engineering.	University of Ferrara Fondazione Serafino Cevasco, Via Luigi Borsari 46 44100 Ferrara, Italy	February 3 months	University degree in engineering, chemistry or agriculture. Italian	-	To be arranged
Technologie sucrière	Technologie sucrière ; comptabilité ; engineering ; administration des usines sucrières.	ISERF - Institut d'Etudes, de Recherche et de Formation 12 rue Angola Rabat, Maroc	A arranger	Qualifications professionnelles. Français	-	A arranger
Cereal chemistry and technology	Training in one or more of the following fields: cereal laboratory methods, both chemical and physical and the relation between analytical results and technology; technology of milling for food or feed, baking of bread, biscuits and flour confectionary products, extrusion cooking, roasting, steaming, drum drying, pasta production and pelleting.	Institute for Cereals, Flour and Bread TNO P.O. Box 15 6700 AA Wageningen Netherlands	On request	Professional qualification. Dutch, English or German	-	f. 5,500 per month

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Ciencia y tecnología de alimentos	Fundamentos químicos y bioquímicos de la tecnología de alimentos; ingeniería de los procesos de conservación de alimentos; control analítico y de calidad en las industrias de alimentos; control microbiológico e higiene en las industrias de alimentos; tecnología específica de las conservas, de los zumos de frutas y de los alimentos deshidratados.	Instituto de Agro-química y Tecnología de Alimentos Jaime Roig 11 Valencia, España	Septiembre 10 meses	Título superior expedido por una Universidad o escuela técnica superior. Español	Julio	45,000 Ptas
Especialización en grasas	Características generales de las grasas; análisis de las materias grasas; extracción del aceite de oliva, del aceite de orujo de aceitunas y de los aceites de semillas; transformaciones de grasas comestibles y de grasas industriales.	Instituto de la Grasa y sus Derivados, Avda. P. García Tejero 4 Sevilla-12, España	Noviembre 1983 15 semanas	Poseer la formación básica que supone haber cursado estudios de escuelas técnicas de grado medio. Español	Octubre 1983	60,000 Ptas
Meat industry technology and management	Slaughterhouse, cutting, packing plant, sausage factory, canning, central kitchen, transportation; engineering and technology; administration and management.	Kristianstad-Blekinge Slakteriförening Box 568 S 291 25 Kristianstad Sweden	To be arranged 3-12 months	Basic education in engineering, technology, bio-chemistry and/or microbiology. Practice in meat plant operations. English or German	-	SKr 5,500 per month
Milling technology	Wheat, rye and maize milling technology (theoretical and practical courses); basic scientific subjects relating to milling technology (theoretical and practical courses); physics and mathematics with the main subunits in electrotechnics and pneumatics; course also covers brewing technology, oat milling technique; oil milling technique; plant management; technical drawing.	The Swiss School of Milling, Tellstr. 2 CH-9000 St. Gallen Switzerland	1st Monday in September each year 10 months	Professional qualification. German or English alternatively	1 year in advance	Swf 1,300

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Trade and technology policies in the food processing sector	Policy and planning issues in the field of food processing.	UNCTAD Advisory Service on Transfer of Technology Palais des Nations CH-1211 Geneva 10 Switzerland	Fourth quarter 1983 (to be confirmed)	Participants are officials from developing countries nominated by their Governments upon invitation by UNCTAD. English	-	-
Beet sugar technology	The course will cover the whole process i.e. beet storage, juice production, juice purification, evaporation, crystallization, heat economy, micro-biological control, pollution control, process control, both theoretically and practically.	Turkish Sugar Co. Sugar Institute Technological Research Division Etimesgut, Turkey	Early September 6 weeks	Engineering experience. English	-	To be arranged
Biscuit technology	Raw materials; classification; processing; changes; flow; checking; special plant and equipment; quality control.	Baker Perkins Holdings PLC and the National Bakery School Polytechnic of the South Bank Borough Road London SE1 0AA United Kingdom	11 April 1983 5 days	Professional qualification. English	-	About £200
Beet sugar production	Practical and theoretical courses in all aspects of the production of sugar from beet including supervisory skills, industrial safety and management techniques.	Beet Sugar Developments Ltd. (British Sugar plc) P.O. Box 26 Oundle Road Peterborough PE2 9QU United Kingdom	September-December (operational period of beet sugar factories in the UK) up to 4 months	Professional qualification. English	-	To be arranged

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Beet sugar production and technology studies	Short courses on: process technology; new development in sugar industry; welding; training of electrical and mechanical engineers for sugar factory; process instrumentation.	Beet Sugar Developments Ltd. (British Sugar plc) P.O. Box 26 Oundle Road Peterborough PE2 9QU United Kingdom	Throughout year 3 days - 10 months	Professional qualification. English	-	To be arranged
Sugar beet agriculture	Practical instruction in all aspects of factory management and field agronomy including: beet delivery and sampling, extension services, field operations from sowing to harvesting, pest and disease control, herbicide application and weed control, complete crop mechanization.	Beet Sugar Developments Ltd. (British Sugar plc) P.O. Box 26 Oundle Road Peterborough PE2 9QU United Kingdom	Throughout year 3 days - 10 months	Professional qualification. English	-	To be arranged
Food science and technology	The course comprises the subjects: chemistry, biochemistry and processing of foods, microbiology of food, the principles of the production and distribution of foods and human nutrition.	Department of Science Bristol Polytechnic Coldharbour Lane Bristol BS16 1QY United Kingdom	September 12 months	Background study in the basic sciences particularly chemistry. English	-	£4,000 approx.
Post-harvest technology of fruits, vegetables and root crops	Lectures, demonstrations and group visits on principles of perishable crop handling and their commercial application, including: post-harvest physiology, product quality and control, harvesting and handling, storage, transportation, packaging, ripening, packing station design and equipment.	Tropical Products Institute 127 Clerkenwell Road London EC1R 5DB United Kingdom	25 April 1983 and 23 April 1984 12 weeks	Degree or equivalent in biological science, agriculture or horticulture or several years experience of produce handling. English	-	To be arranged
Storage of durable agricultural products in the tropics	Storage of cereals, grain, legumes, oilseeds, coffee, cocoa, etc. including: storage losses, inspection methods, climate and storage, insect identification, chemical control, fumigation, moisture content, storage systems and structures, rodents, packaging.	Tropical Products Institute 127 Clerkenwell Road London EC1R 5DB United Kingdom (Slough, near London)	28 February and 5 September 1983 27 February and 3 September 1984 1-5 months	Degree or equivalent in biology, agriculture or engineering or some years experience in produce storage or handling. English	-	To be arranged

GLASS AND OPTICAL INDUSTRIES
INDUSTRIE DE LA VERRERIE ET DE L'OPTIQUE
INDUSTRIAS DEL VIDRIO Y OPTICAS

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
La fabricación de lentes de contacto	Teorico y practico.	Departamento de Fisicomatemática, orientación Física de la Facultad de Farmacia y Bioquímica (UBA) Junín 956 Buenos Aires, Argentina	Iniciación Mes de Marzo duración 3 meses y 1/2	Ser optico tecnico egresado de cualquier establecimiento reconocido por la secretaría de estado de salud publica. Castellano	1 de Marzo	
Sciences et techniques verrières	Formation scientifique et technique dans le domaine du verre : enseignement dans les sciences existantes et dans les disciplines ou techniques nouvelles.	Ecole Supérieure du Verre - E.S.V. c/o C.I.Fo.P., 1b avenue Général Michel B-6000 Charleroi Belgique	A arranger 1-6 mois	- Français, anglais	-	A arranger

LEATHER AND LEATHER PRODUCTS INDUSTRIES
INDUSTRIE DU CUIR ET DES ARTICLES EN CUIR
INDUSTRIAS DEL CUERO Y DE LOS PRODUCTOS DE CUERO

Tecnología del cuero	Periodos de adiestramiento sobre: procesos de fabricación, control de calidad, efluentes de curtiembre.	Centro de Investigación de Tecnología del Cuero (CITEC) Camino Centenario 505 y 508 casilla de correo No. 6 1897-M.B. Gonnet Argentina	1 Abril 1983 3-6 meses	Ingeniero o licenciado en química, egresado de escuelas técnicas de curtiduría. Español	1 Febrero 1983	A convenir
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Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Tecnología del cuero	Curso teórico-práctico: piel animal; operaciones y procesos de precurtición; curtición; operaciones y procesos de post curtición; terminación; efluentes de curtiembre; propiedades del cuero; normas y métodos de ensayo.	Centro de Investigación de Tecnología del Cuero (CITEC) Camino Centenario 505 y 508 casilla de correo No. 6 1897-M.B. Gonnet Argentina	1 Octubre 1983 1 mes	Ingeniero o licenciado en química, egresado de escuelas técnicas de curtidería. Español	30 Junio 1983	A convenir
Chimie et technologie de la fabrication du cuir	Bases de chimie générale, organique et analytique nécessaires à l'étude de la chimie du cuir et aux travaux de laboratoire, chimie et technologie de la fabrication du cuir : composition et structure de la peau, conservation, défauts ; étude détaillée des travaux de riviére ; tannages chrome, végétal, fourrure, etc. ; opérations après tannage ; finissage des cuirs, machines de tannerie, épuration des eaux ; méthodes de fabrication des différents types de cuirs. Laboratoire d'analyses chimiques et d'essais physiques : produits utilisés en tannerie, eaux, cuirs, contrôle des opérations de fabrication des cuirs. Atelier de fabrication des principaux types de cuirs ; préparation d'un mémoire sur une fabrication choisie par le stagiaire.	Ecole Belge de Tannerie Quai Gloesner 6 B-4020 Liège Belgique	Septembre 1983 9 mois	Qualifications professionnelles. Français	25 juin 1983	Bf. 80,000
Leathergoods manufacture	Pattern cutting and design development; fabrication of leathergoods using hand tools and simple machines; fabrication of leathergoods using modern machines and improved tools; training on various leathergoods machines including shaving machines; training on leather craftwork; theoretical classes on leathers, materials, tools, organization and trade practices and cost estimates.	Central Leather Research Institute (CLRI), Adyar, Madras 600 020, India	March 1983 and 1984 48 weeks	University entrance. English	-	Rs 2,000 per month

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Leather technology	Training course in leather manufacture which includes dyeing and finishing leathers; maintenance of tanning machinery; laboratory analytical techniques connected with leather and its auxiliaries.	Central Leather Research Institute (CLRI), Adyar Madras 600 020 India	To be arranged 3-12 months	Professional qualification. English	-	Rs 2,000 per month
Leather quality control	Theoretical and practical training in laboratories covering leather and leather-goods quality control, physical as well as chemical, and environmental control activities.	Netherlands Organization for Applied Scientific Research TNO, Institute for Leather and Shoe Research 55, 5141 Er Waalwijk Netherlands	Throughout year. To be arranged	Engineering or chemistry degree. English	-	To be arranged
Leather technology	Technical training courses for work and departmental managers in leather producing factories (tanneries). Practical training in the manufacture of the desired types of leather with regard to the chemical-technological part, to the mechanical operations and the environmental problems. Procedures are made available and discussed, attention is given to knowledge of sorting and judging hides, semi-manufactured and finished leather. In the mechanical operations knowledge and maintenance of machines and safety measures are treated. Alternately with the practical part of the training a theoretical course is given.	Netherlands Organization for Applied Scientific Research TNO, Institute for Leather and Shoe Research 55, 5141 Er Waalwijk Netherlands	April and September 1983 and 1984 12 weeks	Professional qualification. English	-	To be arranged

MECHANICAL AND METALWORKING INDUSTRIES
INDUSTRIE DE CONSTRUCTION MECANIQUE ET DE TRANSFORMATION DE METAUX
INDUSTRIAS MECANICAS Y DE TRANSFORMACION DE METALES

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Construction métallique	Evaluation de la formation de base ; répétition éventuelle des connaissances de base ; lecture de plans ; métrologie ; postes de travail ; matériel ; contrôle du matériel ; sécurité ; entretien.	Spoorwegmateriel en Metaalconstructies, BN Vaartdijkstraat 5 B-8200 Brugge Belgique	A arranger 3 mois approx.	Qualifications professionnelles. Français, anglais ou néerlandais	-	A arranger
Mécanique générale	Large éventail de sujets dans le domaine de la mécanique générale.	Spoorwegmaterial en Metaalconstructies Vaartdijkstraat 5 B-8200 Brugge Belgique	A fixer 3 mois en moyenne	Qualifications professionnelles. Français, anglais ou néerlandais	-	A arranger
Industrial engineering	The shipyard organizes in 1983 or 1984 some 33 courses in production and marine engineering.	Alexandria Ship Yard Gate No. 36 Kabary, Alexandria Egypt	To be arranged 2-6 months	Engineering degree. English	-	To be arranged
Industrial engineering	Courses in: technology of forging dies; forging die design; coke, coal-tar and fertilizer production.	El-Nasr Forging Co. P.O. Box 15 Helwan, Cairo, Egypt	July and August 1983 1 month	Degree in mechanical engineering. English	-	-
Industrial engineering	The Institute organizes wide range of courses in tool design and related aspects of industrial engineering, metrology, machine tool maintenance, electrical maintenance, heat treatment, welding, industrial chemistry, process control.	Advanced Training Institute Guindy, Madras 600032 India	Throughout year 2-16 weeks	Professional qualification. English	-	Rs 200 per month
Basic engineers' course	Welding processes - welding metallurgy - NDT and quality control - manufacturing codes - weld design economy and productivity - applications - safety - practical training in welding.	Welding Research Institute Tiruchirapali 620014 India	May 1983 August 1983 November 1983 8 weeks	Graduate engineer. English	1 month before start of the course	\$US 700

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Basic supervisors' course	Theoretical and practical aspects of welding metallurgy, welding processes and their principles and applications, destructive and non-destructive testing, group discussions and practicals in MMA welding.	Welding Research Institute Tiruchirapalli 620014 India	July 1983 October 1983 4 weeks	Diploma holder. English	1 month before start of the course	\$US 250
Welding operator's programme in manual metal arc, tig, mig and saw	With materials carbon steel, alloy steels, stainless steels, plate tube and pipe in all positions, to suit the requirement of the deputing organizations.	Welding Research Institute Tiruchirapalli 620014 India	At any time on mutual agreement 12-13 weeks	4-5 years experience in welding. English	1 month before start of the course	\$US 80 per week
Welding, brazing, cutting	Short courses covering welding, brazing and cutting processes: for shop-management; designers of welded constructions; welding engineers; work-preparers; welding inspectors; shielded metal arc welders; operators of submerged arc welding; operators of machine cutting equipment.	Netherlands Organization for Applied Scientific Research TNO, Metal Research Institute, Welding Department P.O. Box 541 7300 AM Apeldoorn Netherlands	Upon request	Professional qualification. English	-	To be arranged
Industrial engineering	Short courses on: industrial maintenance (mechanical); industrial electronics; chemical engineering; preventive maintenance; process instrumentation and automatic control; boiler water treatment; corrosion; production maintenance; cost control; management maintenance; industrial maintenance (electrical); PERT and CPM; computer applications in industry.	PETROMAN Musarrat Building Sultan Ahmed Shah Rd. Off: Shaheed-e-Millat Road, P.O. Box 8913 Karachi, Pakistan	To be arranged 1-2 weeks	Professional qualification. English	-	Rs 1,250 - Rs 3,500
Industrial engineering	Courses on: heat treatment of cast irons; heat treatment furnaces and equipment; foundry organization planning and management; industrial water treatment; fundamentals of corrosion; production planning and control; maintenance planning; quality control; explosion protected electrical equipment; process control systems and instrumentation techniques; high and low voltage system protection; welding; refrigeration; solar energy.	Industrial Training and Development Centre (ITDC) Selanik Caddesi No. 16 Kizilay-Ankara Turkey	Throughout year 10 days - 2 months	Professional qualification. Turkish	-	To be arranged

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Industrial engineering	Courses on: mechanical testing and inspection of engineering materials; foundry technology in a developing country; heat treatment of steels.	Middle East Technical University Engineering Department Ankara, Turkey	To be arranged 3-4 weeks	Professional qualification. English	-	To be arranged
METALLURGICAL INDUSTRIES INDUSTRIE METALLURGIQUE INDUSTRIAS METALURGICAS						
Minéralogie	Méthodes de séparation et d'identification des minéraux ; traitement des minerais ; techniques d'investigations utilisées dans les études de traitement des minerais ; examens minéralogiques ; essais minéralogiques et métallurgiques ; analyses chimiques.	Laboratoire de Traitement des Minerais de l'Université Catholique de Louvain Bâtiment Reaumur Place Ste Barbe 2 1348 Louvain La Neuve Belgique	15 septembre chaque année 3-9 mois	Ingénieur des mines et métallurgie. Français, anglais	-	Bf. 30,000 par mois
Procesamiento de minerales	La molienda autógena y sus aplicaciones al procesamiento de minerales; aplicabilidad de los modelos matemáticos al dimensionamiento y optimización de circuitos de molienda clasificación; pirometalurgia del cobre; muestreo de materiales a granel.	Centro de Investigación Minera y Metalúrgica (CIMM) casilla 170 correo 10 Santiago Chile	Marzo y abril 1983 1-2 semanas	Calificación profesional. Español o inglés	-	\$US 600 - \$US 1,200
Casting design	Different aspects of casting design, required to ensure the production of sound castings; solidification and cast structure, fundamentals of gating and feeding systems, calculation methods of risers and gates, design for reliable and economical moulding, dimensional tolerances. Training programme in the design offices of steel, iron and non-ferrous foundries.	Foundry Department Central Metallurgical Research and Development Institute National Research Centre Tahrir St. Dokki, Cairo Egypt	October 1983 4 weeks	Professional qualification. English	May 1983	\$US 2,000

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Metallurgical engineering	Courses on: ferrous metallurgy; non-ferrous metallurgy; foundry production; heat treatment; metal shaping; industrial furnaces; mechanical equipment; automation of industrial processes; economics and organization of industrial production; open cast mining. Each course is followed by a study tour and practical training in leading metallurgical enterprises in Egypt or abroad.	El-Tabbin Institute for Metallurgical Studies El-Tabbin, Egypt	Mid-September 10 months	Professional qualification. English	-	To be arranged
Technological development of steel production in developing countries	Development of the traditional techniques of steel production (converters, open-hearth furnaces, electric-arc furnaces, induction furnaces); new techniques of steel production (electro-slag remelting, vacuum electric-arc); production of special steels (clean steel, stainless steel, nitronic steel); production of ferroalloys especially ferrotitanium and ferrovanadium; gases in steel and their analysis; non-metallic inclusions; how to solve production problems; quality control; practical training on pilot plant operations and modern apparatuses and visits to Egyptian steel enterprises.	The National Research Centre, Central Metallurgical and Development Institute Dokki, Cairo, Egypt	October 1983 6 weeks	University graduates. English	June 1983	To be arranged
Iron and steel production	The trainees can specialize in the following fields; ore-dressing; coke-production and by-products; blast furnace: technical knowledge and practical training; steel production: technical knowledge and practical training, continuous casting; rolling processes both hot and cold; manufacture of welded and weldless pipes; steel and pig-iron foundry; quality control; maintenance of the machinery; general factory facilities; latest methods adopted in organization and management.	Istituto per la Ricostruzione Industriale, (IRI) Direzione Estero Ufficio Cooperazione Tecnica Internazionale Via Vento 89, Rome Italy (Rome and other towns in Italy)	24 January 1983 5 months	Advanced technical education or university degree and 5 years experience. Italian, French, English, Spanish	-	To be arranged

METALLURGICAL INDUSTRIES (Cont'd)

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Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Foundry-technology	Special aim of the course is to enable the participants to solve the problem of producing modern cast irons within their country's restrictions regarding importations and facilities. Metallurgy; melting units, melting, melt treatment; preparation and control of clay-, cement- and resin-bounded moulding materials; coatings; patterns; casting quality control.	Netherlands Organization for Applied Scientific Research TNO, Metal Research Institute, Technical Foundry Centre P.O. Box 541 7300 AM Apeldoorn Netherlands	Upon request	Professional qualification. English	-	To be arranged

PACKAGING INDUSTRIES
INDUSTRIE DE L'EMBALLAGE
INDUSTRIAS RELACIONADAS CON EL EMBALAJE

Application des matières plastiques dans l'emballage et le conditionnement (y compris les tuyaux)	Les polymères utilisables dans le conditionnement et l'emballage ; leurs diverses propriétés ; chimiques, physiques et rhéologiques ; le conditionnement des produits chimiques, bidons, fûts et réservoirs ; le transport des eaux résiduaires ; le flaconnage alimentaire et industriel ; travaux de laboratoire ; visites d'usines et d'industries alimentaires ; l'emballage alimentaire ; notions de toxicologie ; l'étude de la migration des adjuvants (méthodes et analyses) ; le transport de l'eau potable (contrôle de migration) ; l'élimination des déchets de l'emballage en matières plastiques (pollution de l'air et du sol/biodégradabilité).	Centre d'Etudes des Matières Plastiques Université de Liège 2, rue Armand-Stewart Liège, Belgique	Toute l'année sauf juillet et août 6 mois - 1 an	Ingénieur chimiste, licencié en sciences pharmaceutiques. Français	-	A arranger
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Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Emballage	Les matières premières ; le carton ondulé et son utilisation ; le carton plat et son utilisation ; les emballages en bois ; les fûts, bidons, jerrycans, boîtes métalliques, rails ; les films en matière plastique et les complexes ; les sacs industriels ; les sollicitations lors du transport ; essais sur emballages ; méthodes d'essais ; appareils, normes, contrôle de la qualité ; les accessoires d'emballages ; le transport des marchandises dangereuses ; la corrosion ; les machines d'emballages ; visites d'usines et canaux de distribution.	Institut Belge de l'Emballage rue Picard 15 1020 Bruxelles Belgique	A fixer 3 mois en moyenne	Degré universitaire Français ou anglais	-	A arranger
Packing and conditioning of some alimentary liquids	The colloquy includes general information about materials (glass, plastics, laminates, metal), retail packages (goblets, bottles, cans, small bags) and automatic and semi-automatic machinery (fill- and closing machines). Attendance at International Packaging Exhibition (PAKEX 83) and Brewery Exhibition (BREWEX 83) at Birmingham.	Belgian Packaging Institute (B.P.I.) 15 rue Picard 1020 Brussels Belgium	10 April 1983 2 weeks	Professional qualification and professional experience. English	-	To be arranged
Packaging	Packaging: management, economics, techniques, etc.	Indiar. Institute of Packaging E-2 MIDC Area Chakala, Andheri (E) Bombay 400 093, India	1st week of July 3 months	Professional qualification. English	15 June	\$US 1,000
Packaging	Testing of packaging materials/packages (in-laboratory training).	Indian Institute of Packaging E-2 MIDC Area Chakala, Andheri (E) Bombay 400 093, India	To be arranged	Professional qualification. English	-	To be arranged
Packaging	The course will cover, through lectures, experiments, study tour and case studies, the whole range of packaging; theory, function, materials, technique, drawing, management, physical distribution, standardization, ergonomics, quality control, transportation, etc.	Korea Design and Packaging Center 128 Yunkun-dong Chongro-ku Seoul Republic of Korea	May 1983 6 weeks	Professional qualification. Korean	-	\$US 150

PACKAGING INDUSTRIES (Cont'd)

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Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Emballage	Emballages en papier et carton ; emballages de transport et exportation ; conditionnement des produits alimentaires ; emballages en matières plastiques.	IMEC - Institut Marocain d'Emballage et de Conditionnement Km 9,5 route de Nouaceur Casablanca-Oasis Maroc	A arranger	Qualifications professionnelles. Français	-	A arranger
Packaging technology	Practical and theoretical training on general and specialized aspects of packaging technology. Packaging specifications, test methods and test equipment featured. Courses purpose-designed to meet individual requirements.	Packaging Division Pira (Research Association for the Paper and Board, Printing and Packaging Industries) Randalls Road Leatherhead, Surrey KT22 7RU United Kingdom	To be decided 4-8 weeks (tentative)	Professional qualification. English	-	To be arranged

PRINTING INDUSTRIES
INDUSTRIES GRAPHIQUES
INDUSTRIAS GRAFICAS

Printing industry	Production of newspapers, periodicals, books (including text-books and other printed material); planning and design of printing houses; tasks and problems in the training of specialists for the graphic arts industry; standardization and quality control in the graphic arts industry. In addition to theoretical training, study visits, practical training will be arranged to plants manufacturing printing machinery and to printing houses.	VEB Polygraph Leipzig, German Democratic Republic	September October 3 weeks	Professional qualification. English	-	To be arranged
Offset printing	Technical and practical skill in mounting, platemaking and printing.	Printpromotion GmbH Lyonerstrasse 18 D-6000 Frankfurt 71 Federal Republic of Germany	August 1983 11 months	Basic knowledge in offset printing. English	March 1983	To be arranged

PRINTING INDUSTRIES (Cont'd)

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Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Reproduction photography	Technical and practical skill required for operating reproduction equipment, colour separation.	Printpromotion GmbH Lyonerstrasse 18 D-6000 Frankfurt 71 Federal Republic of Germany	August 1983 11 months	Basic knowledge in reproduction. English	March 1983	To be arranged
Printing technology	Short courses on electronic composition-systems and techniques for editors and journalists; in-plant printers; paper and film assembly, monochrome and colour; print buyers and designers; colour reproduction and control; colour measurement and matching; sheet fed lithography; quality control; web offset newspapers; bar coding systems; flexographic printing; basics of printing and finishing.	PIRA - The Research Association for the Paper and Board, Printing and Packaging Industries Randalls Road Leatherhead Surrey KT22 7RU United Kingdom	To be arranged	Professional qualification. English	-	To be arranged

PULP AND PAPER INDUSTRIES
INDUSTRIE DE LA PATE A PAPIER ET DU PAPIER
INDUSTRIAS DE LA CELULOSA Y EL PAPEL

Paper and board manufacture	Raw materials; stock preparation; chemical additives; paper and board machines.	General Company for Paper Industry RAKTA El-Tabia, Rashid Line Alexandria, Egypt	To be arranged 3 months	Professional qualification. English	-	To be arranged
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Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Pulp and paper technology	Theoretical and practical aspects of pulp and paper production; problem solving exercises in wood chemistry, pulp technology and paper technology. Laboratory exercises.	University of Trondheim Norwegian Institute of Technology (NTH) Laboratory of Pulp and Paper Technology, in collaboration with the Norwegian Agency for International Development (NORAD) N-7034 Trondheim Norway	August 1983 10 months	B.Sc. or equivalent; some practical experience in pulp and paper industries. English	-	-
RCA/UNDP training demonstration workshop on the use of nucleonic control systems in the paper industry	Practical aspects of use of nucleonic control systems in the paper industry including technical, engineering and economic factors. Background will be provided in basis nucleonics, electronics, design engineering, operating characteristics and maintenance strategies to be followed for various types of industrial nucleonic systems.	IAEA/UNDP, Office of Atomic Energy for Peace and Siam Kraft Paper Company Thailand	First two weeks of March 1983 and 1984 2 weeks	Nominating by RCA Member States through the International Atomic Energy Agency. English	To be announced by the IAEA	None
Pulp, paper and board technology	Pulping of graminaceous raw materials; paper and pulp testing; papermaking technology; organization and management of research; wastepaper recycling; microbiological aspects of paper and board making; water and effluent treatment; energy conservation; water conservation; technical services; automation and computer control.	Paper and Board Division Pira (Research Association for the Paper and Board, Printing and Packaging Industries) Ranwalls Road Leatherhead, Surrey KT22 7RU United Kingdom	To be decided 4-8 weeks (tentative)	Professional qualification. English	-	To be arranged

TEXTILE INDUSTRIES
INDUSTRIE TEXTILE
INDUSTRIAS TEXTILES

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Textiles	Métrologie des caractéristiques des fibres, fils et tissus ; filature de coton et de laine ; processus de tissage, procédés de tricotage ; examen de l'évolution des études en cours dans les laboratoires de recherche textile (coton, laine, lin, fibres chimiques) ; aide technique aux moyennes et petites entreprises textiles.	Centixbel 24, rue Montoyer 1040 Bruxelles Belgique	Toute l'année sauf juillet et août 3-6 mois	Qualifications professionnelles. Français, néerlandais	-	A arranger
Industrie textile	Fabrication: fibres, filature, bonneterie, tissage, examens de laboratoire, contrôle de la qualité en laboratoire, réparation et entretien des machines. Matières premières: fibres naturelles animales, végétales, fibres artificielles, fibres synthétiques.	Centre de Recherche et de Contrôle Lainier et Chimique (CCELAC), Zoning de Petit Rechain avenue du Parc 69H B-4655 Chaineux Verviers, Belgique	Toute l'année sauf juillet et août A fixer	Qualifications professionnelles. Français	-	Bfr.20,000 par mois
Testing and quality control of textiles	Practical training and short course; determination of physical, mechanical and chemical characteristics of all kinds of fibres, yarns, fabrics, garments. Combined product testing. Methods and systems of testing and qualifying work. Quality control systems including product, system structure and function, environment.	Institute for Quality Control in the Textile Industry József krt. 5 Budapest VIII Hungary	Throughout year	Professional qualification. English	-	To be arranged
Textile industry	Spinning, weaving including preparation yarn and piece dyeing, finishing, printing, testing.	Ten Cate Consultants Egbert Gorterstraat 3 P.O. Box 58 7600GD Almelo Netherlands	Throughout year (except July) 4-12 weeks	Graduate of technical school. English/German	-	To be arranged

TEXTILE INDUSTRIES (Cont'd)

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Textile mill management	Theory and practice of industrial organization and management; costing; maintenance, production control; quality control; statistics; trouble shooting; operative selection and training. Theory and practice of textile manufacturing processes; cotton and synthetics spinning, weaving, knitting dyeing, finishing and printing. In-plant training; case study.	Ten Cate Consultants Egbert Gorterstraat 3 P.O. Box 58 7600 GD Almelo Netherlands in collaboration with the Textile Engineering College I.H.B.O. "De Maere" P.O. Box 1075 7500 BB Enschede Netherlands	September 5-6 months	Production managers and technical staff; minimum secondary level schooling, 2 years experience in textile industry. English	July	To be arranged
Textiles	Short and longer courses on: basic work study; production planning and control; designing and product development in textiles; in-plant training for fitters instructors for spinning and weaving machines; quality control and testing in wet processing; printing and dyeing of polyester and polyester-cellulosic blends; weaving shed supervising; weaver's instructors; spinning supervisors; quality control (spinning); spinning operatives instructors.	T.I.R.D.C. - Textile Industry Research and Development Centre Moulvi Tamizuddin Khan Road P.O. Box 479 Karachi, Pakistan	Throughout year 6 days - 20 weeks	Professional qualification. English	-	To be arranged
Textile technology	Theory and practical training on basic textile technology; raw materials yarn manufacturing; fabric manufacturing and fabric finishing including quality and production control.	Philippine Textile Research Institute in co-operation with the Philippine Association of Textile Technologists Ricutan, Taguig Metro Manila Philippines	15 September 1983 12 weeks	University graduate. English	-	To be arranged

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Textile evaluation	The course is designed to produce graduates with a thorough knowledge of textiles and polymers and the ability to assess their performance and value. As well as evaluation, students take classes in textile technology, physics and chemistry; they also undertake project work. Optional subjects can be taken if desired.	Fibre and Textile Research Unit Department of Pure and Applied Chemistry University of Strathclyde Glasgow G1 1XL United Kingdom	October 9 months	Professional qualification. English	-	To be arranged
Textile science and technology	A short post-experience course designed to enable technologists in the textil industry to obtain up to date advanced training in textile chemistry, physics and technology.	Fibre and Textile Research Unit Department of Pure and Applied Chemistry University of Strathclyde Glasgow G1 1XL United Kingdom	To be arranged	Professional experience in textiles and/or science degree. English	-	To be arranged
Cotton, textiles, management principles and techniques	To enable the manager or supervisor to understand and apply principles of good management in order to improve productivity, quality and industrial relations. The course will include: leadership, control data and procedure, work-force potential, selection, communications, training and health and safety.	Fielden House Productivity Centre Limited The Shirley Campus 856 Wilmslow Road Didsbury Manchester M20 8RY United Kingdom	Throughout year 4 weeks	Professional qualification. English	-	£445 + VAT
Cotton fibre technology, testing and evaluation	Basic statistics; general fibre technology; fibre structure; fibre properties in relation to end-use; fibre identification; cotton testing and evaluation; testing of cotton in process; analysis and evaluation of test results; cotton marketing.	International Institute for Cotton Kingston Road Didsbury Manchester M20 8RD United Kingdom (Bolton Institute of Technology)	April 1983 8 weeks	Education at least up to university entrance level and technical qualifications in either: (a) agricultural subjects, preferably related to cotton production, or (b) textile technology at least up to Higher National Diploma (or equivalent) level. English	January 1983	£650-750

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Cotton knitting - technology and quality control	Basic statistics; general fibre technology, fibre structure, fibre properties in relation to end-use, fibre identification; testing and preparation of cotton yarns for knitting; range of knitted fabrics; knitting technology; testing of fabric knitted from cotton; evaluation of end product; fabric finishing; manufacture of garments knitted from cotton products; garment testing; fabric and garment faults.	International Institute for Cotton Kingston Road Didsbury Manchester M20 8RD United Kingdom (School of Textile and Knitwear Technology of the Leicester Polytechnic)	June 1983 5 weeks	Professional education, combined with several years practical experience in textile industry. English	March 1983	£550-650
Cotton textiles - management principles and techniques	Leadership; control data and procedure; work-force potential; selection; communications; training; health and safety.	International Institute for Cotton Kingston Road Didsbury Manchester M20 8RD United Kingdom (Fielden House Productivity Centre)	June 1983 4 weeks	A sound general education at least up to university entrance level; industrial experience in the textile industry. English	April 1983	£550-600
Cotton weaving - technology and quality control	Basic statistics; principles and technology of weaving; cloth faults; fault identification and fault prevention and correction; quality maintenance - techniques to minimize fault occurrence; testing and quality control - establishing a quality control unit, analysis of woven fabric, testing of yarn characteristics, testing of fabric characteristics, interpretation of test results.	International Institute for Cotton Kingston Road Didsbury Manchester M20 8RD United Kingdom (Fielden House Productivity Centre)	October 1983 8 weeks	A sound general education, combined with some industrial experience in the textile industry. English	August 1983	£650-750
Sizing of spun yarns	Theory and practice of yarn preparation for weaving (warping, beaming, size constituents, size application, control systems, mechanical problems, evaluation and fault analysis at subsequent stages of processing).	International Institute for Cotton Kingston Road Didsbury Manchester M20 8RD United Kingdom (Bolton Institute of Technology)	April 1983 8 weeks	Technical qualifications in textile technology. English	January 1983	£650-750

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Wet-processing of cotton textiles	The careful preparation of fabric for subsequent processes of dyeing, printing and finishing is essential if the final product is to be competitive in world markets. The purpose of the course is to provide up to date information and practical guidance on modern techniques of fabric preparation and easy-care finishing treatments. It will not deal in any detail with the techniques of dyeing and printing.	International Institute for Cotton Kingston Road Didsbury Manchester M20 8RD United Kingdom	May 1983 8 weeks	A sound general education preferably up to university entrance level; some practical experience in the wet processing of textiles is essential. English	February 1983	£900-1,000
Dyeing and printing	A practical course on dyeing and printing of cotton and man-made fibre fabrics for managers, supervisors and textile chemists. Covers batch and continuous dyeing; roller, flat-screen, rotary screen, and transfer printing; dyes and chemicals; machinery and equipment; faults; testing; quality control; effluent treatment; energy saving.	Shirley Institute Didsbury Manchester M20 8RX United Kingdom	July 1983 6 weeks	Professional qualification. English	-	£580
Spinning	An advanced practical course on the spinning of short staple fibres on ring and open-end systems for spinning managers, supervisors and technologists. Emphasis on testing and quality control.	Shirley Institute Didsbury Manchester M20 8RX United Kingdom	April 1983 6 weeks	Professional qualification. English	-	£800
Textile technology	Introductory, intermediate and advance courses on cotton and man-made fibres, yarns and fabrics; textile processes and machinery for yarn and fabric (woven, knitted, nonwoven) production; dyeing; printing; finishing; testing; quality control; working hazards; energy conservation; technical management.	Shirley Institute Didsbury Manchester M20 8RX United Kingdom	Throughout year 1 day - 6 months	Professional qualification. English	-	To be arranged

TEXTILE INDUSTRIES (Cont'd)

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Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Textiles	WIRA organizes courses on: introduction to worsted spinning; fibre identification; introduction to dyeing and finishing; carpet testing; introduction to woollen carding and spinning; textile materials and production; production of quality woollen yarns; introduction to colour fastness testing; introduction to weaving.	WIRA, Wira House West Park Ring Rd. Leeds LS16 6QL United Kingdom	Throughout year 1-2 days	Professional qualification. English	-	£40- £130

WOOD PROCESSING AND WOOD PRODUCTS INDUSTRIES
INDUSTRIE DU BOIS ET DES ARTICLES EN BOIS
INDUSTRIAS DE ELABORACION DE LA MADERA Y DE PRODUCTOS DE MADERA

Technologie du bois	Panneaux de particules ; utilisation des copeaux ; techniques de fabrication des panneaux de particules ; équipements employés ; contrôle de qualité des panneaux.	Station de Technologie Forestière Avenue Maréchal Juil. 1 5800 Gembloux Belgique	Toute l'année sauf juillet à septembre 2 mois	Qualifications professionnelles. Français	-	Bf. 15,000 par mois
Management of forest industries	The main objective of the workshop is to train forest industries managers, supervisors and planners in industrial and commercial management of forest industries, so as to improve the efficiency of these industries.	Forest Industries Division Forestry Department FAO Via delle Terme di Caracalla 00100 Rome, Italy in co-operation with the Government of Finland, Kotka College of Forestry and Wood Technology, Kotka Finland	5 September 1984 3 weeks	Professional qualification. Participants must be from following institutions: forest industries corporations; forest industries planning authorities; forest industries marketing boards and should have a university degree. English	3 months before starting date	To be arranged

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Training of technical-level forestry instructors	Training of forestry trainers in pedagogical skills and current technical forestry techniques such as logging.	FAO Via delle Terme di Caracalla 00100 Rome, Italy and the Government of the Philippines on the basis of a Trust Fund grant from SIDA (Centre of Forestry Education Development Los Baños)	August 1983 June 1984 6 months	Professional qualification. English	3 months before starting date	To be arranged
Saw-doctoring	All aspects of saw-doctoring and relevant tool-room technology.	Buckinghamshire College of Higher Education Queen Alexandra Road High Wycombe Buckinghamshire United Kingdom	September 12-14 weeks	Professional qualification. English	-	£1,290
Timber technology	Sawmilling, drying, preservation, utilization, management, marketing and timber trade practice.	Buckinghamshire College of Higher Education Queen Alexandra Road High Wycombe Buckinghamshire United Kingdom	September 1 year	Relevant experience and/or graduate status. English	-	£3,400
Timber structures and technology	Basic properties of timber; utilization of timber; structural analysis of components; the building process with timber; protection by design; biodeterioration and preservation of timber.	Department of Civil Engineering Imperial College University of London London SW7, United Kingdom	October 1983 12 months	University degree, or suitable equivalent experience, in civil engineering, building, architecture, timber technology or forestry. English	1 May 1983	£4,000

CHAPTER 2: TRAINING OPPORTUNITIES OFFERED BY INSTITUTIONS OTHER THAN UNIDO
 CHAPITRE 2 : POSSIBILITES DE FORMATION OFFERTES PAR DES INSTITUTIONS AUTRES QUE L'ONUDI
 CAPITULO 2: OPORTUNIDADES DE CAPACITACION OFRECIDAS POR INSTITUCIONES DISTINTAS DE LA ONUDI

B. INDUSTRIAL FUNCTIONS - FONCTIONS DANS L'INDUSTRIE - FUNCIONES INDUSTRIALES

AUTOMATION AND DATA PROCESSING
 AUTOMATISATION ET TRAITEMENT DES DONNEES
 AUTOMATIZACION Y PROCESAMIENTO DE DATOS

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Automatique avancée et robotique	Former des gens capables de mettre en oeuvre des robots, depuis les manipulateurs simples jusqu'aux robots les plus évolués. Aspects économiques de l'automatisation ; aspects sociaux ; la programmation des robots ; les différents outils de péri-robotique ; les machines outils à commande numérique et la liaison machines outils à commande numérique et robots ; la maintenance des installations robotisées.	Institut National des Sciences Appliquées de Lyon 20, avenue A. Einstein 69621 Villeurbanne Cedex France	Novembre 1983 6 1/2 mois	Techniciens supérieurs en mécanique ou niveau équivalent. Français	Septembre 1983	A fixer
Automation, informatique et régulation dans les unités industrielles	Cours sur: les analyseurs industriels de procédés ; les automatismes logiques ; l'instrumentation et la régulation industrielle ; la commande pour calculateurs numériques.	Institut de Régulation et Automation chemin des Moines 13644 Arles France	Toute l'année	Qualifications professionnelles. Français	-	A arranger
Collection and analysis of statistical data - methodological aspects	Organization of statistical surveys, data collection, error control, EDP, analysis of time series, seasonal adjustment, constant price estimates, etc.	Munich Centre for Advanced Training Pfälzer-Wald Str. 2 D-8000 Munich 90 Federal Republic of Germany	March and September 1983 4 months	Degree in statistics. English (March) French (September)	15 January and 15 July 1983	To be arranged
Basic systems analysis	Methods of processing data for accounting, statistical and managerial purposes; systems analysis and design. (Training package on basic systems analysis developed by the British National Computing Centre (NCC).)	The Hong Kong Productivity Centre Sincere Building 173 Des Voeux Road Central, Hong Kong	April and October 4 weeks	Some background knowledge of computers and their applications. English	-	\$HK 5,500

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Information storage and retrieval systems	Theoretical basis of information processing and organization; provide necessary tools in the application of information processing techniques, and in the use of information sources and provision of information services; identify information systems and services required for their organization; understanding of the application of modern management ideas and techniques in the management of information systems and services; computer applications in information processing and dissemination.	Small Industry Extension Training Institute Yousufguda Hyderabad 500 045 India	To be decided 10 weeks	University degree. English	-	\$US 2,800
Computerized information systems	To enable government officials and officials of national institutes to develop their knowledge of computerized information systems and methods of systems analysis. Includes study tour and follow-up seminar for assistance in implementation.	ILO International Centre for Advanced Technical and Vocational Training 201 Via Ventimiglia 10127 Turin, Italy	16 May 1983 10 weeks	Professional qualification. English	-	To be arranged
Data processing	Two types of course can be offered. An advanced information systems design, construction and operations course is available covering the full 14-week period, through topic-based seminars and in-house training in selected EDP centres, to analyze the general method used and a number of advanced systems implemented in the sectors of interest to the person concerned (type A course). Persons interested in a advanced course in general purpose minicomputers for specialized uses and their programmes and applications can take shorter courses (2-4 weeks: type B course).	Istituto per la Ricostruzione Industriale Direzione Estero Ufficio Cooperazione Tecnica Internazionale Via Veneto 89 00187 Rome, Italy (Rome and other towns in Italy)	24 January 1983 5 months	Professional qualification. English, French, Spanish, Italian	-	To be arranged

AUTOMATION AND DATA PROCESSING (Cont'd)

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Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Computer technology	Advanced knowledge of computer software and techniques and practice in programming, comprising advanced COBOL programming, advanced FORTRAN programming, applications and practice.	The Asia Electronics Union Uchisaiwai Bldg. 1-4-2 Uchisaiwai-cho Chiyoda-Ku Tokyo 100, Japan	16 December 1982 12 weeks	Professional qualification. English	-	-
Information, storage and retrieval systems	Generation and flow of information; information analysis and processing; computer application in information services; organization and operation of information service units; standards and patent information.	KIET (Korea Institute for Industrial Economics and Technology) P.O. Box 205 Cheongryangri, Seoul Republic of Korea	April 1983 approx. 3 weeks	Professional qualification. English	-	-
Control engineering	The Department organizes courses in: multivariable control systems design; applied stochastic processes and process modelling; computer control; optimization methods and their applications; analysis and design of control systems.	Department of Control Engineering University of Sheffield Mappin Street Sheffield S1 3JD United Kingdom	January, February, October, November 1983 and January, February, March 1984 2-3 weeks	Professional qualification. English	-	To be arranged
Measurement and control appreciation	Course designed to give senior engineers and managers from associated disciplines a broad outline of the principles and philosophy of instrumentation and control.	Roxby Engineering International Ltd. Roxby House Station Road Sideup Kent DA15 7EJ United Kingdom	17 January, 28 February, 6 June, 1 August, 3 October and 28 November, 1983 16 January, and 12 March 1984 2 weeks	A technical qualification in the electrical, mechanical or chemical disciplines. English	-	£560 (does not include accommodation and food)

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Microcomputers	Short courses on: introduction to micro-computers for accountants and auditors; introduction to business programming in Pascal; microcomputer programming for business applications.	University of Manchester Research Consultancy Service Oxford Road Manchester M13 9PL United Kingdom	4 times a year To be arranged	Professional qualification. English	-	To be arranged
Computers in management and development	Introduction to electronic data; processing concepts; computer hardware; computer software; selection of hardware; systems development; evaluation of software packages; management information systems; quantitative decision-making techniques; manpower planning.	Institute of Public Service, University of Connecticut 1380 Asylum Avenue Hartford, CT 06105 United States of America	29 April 1983 8 weeks	Bachelor's degree or equivalent experience. English	15 March 1983	\$US 4,400
ENERGY ENERGIE ENERGIA						
Energy planning	Basic information on energy uses, balances and resources in developing countries on the basis of case studies or energy audits of developing countries. Present and future developments in alternative energy fields.	Australian Development, Assistance Bureau P.O. Box 887 Canberra City 2600 ACT Australia	To be arranged 12 weeks (approx.)	Professional qualification and 5 years practical experience. English	-	-

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Energy conservation and management in ceramic industries	In-plant technical workshop on energy conservation and management in ceramic industries for the least developed countries.	UNIDO-Czechoslovakia Joint Programme for International Co-operation in the Field of Ceramics, Building Materials and Non-metallic Minerals Based Industries in Pilsen P.O. Box 211 305 11 Plzen Czechoslovakia	11 April 1983 19 days	Professional qualification. English	-	-
Energie	Les économies d'énergie dans l'utilisation de l'électricité.	AFNOR Association Française de Normalisation Tour Europe Cedex 7 92080 Paris La Défense France	Mai et décembre 1983 et 1984 1 semaine	Ingénieurs et techniciens. Français	-	A fixer
Energie	EDF organise des cours en: connaissance de l'EDF (OGTR); calcul économique et planification (CEP); distribution de l'énergie électrique (DEEL); production thermique classique (PTC); transport de l'énergie électrique; techniques de mesures pour l'exploitation des aménagements hydrauliques (TMAH).	Electricité de France (EDF), Direction des Affaires Extérieures et de la Coopération 68, rue du Faubourg Saint-Honoré 75008 Paris, France	Avril, mai, juin, octobre, novembre et décembre 4-8 semaines	Qualifications professionnelles. Français	-	F 5,800-15,000
Management of energy resources and energy saving	Energy management; availability of conventional and renewable energy sources; national energy planning; integrated territorial energy management; personnel training for energy conservation; conservation methods and technologies; maintenance programmes for improving efficiency in plants and utilities; cost benefit analysis for energy saving investments; etc. Includes study tour.	ILO International Centre for Advanced Technical and Vocational Training 201 Via Ventimiglia 10127 Turin, Italy	February and September 1983 12 weeks	Professional qualification. Spanish and English	-	To be arranged

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
New and renewable sources of energy	Applied thermodynamics; thermodynamic conversion of solar radiation; photo-voltaic conversion of solar radiation; biogas generating systems design; recycling of rural and urban waste; hydroenergy: production of mechanical and electrical power from small water gradients; wind and geothermal energy; integrated energy systems analysis; planning of NRSE training programmes; engineering economics: cost benefit analysis, etc. Includes study tour.	ILO International Centre for Advanced Technical and Vocational Training 201 Via Ventimiglia 10127 Turin, Italy	25 April 1983 12 weeks	Professional qualification. English	-	To be arranged
Energy	The training programme can comprise the following areas: production, organization and planning in an electrical engineering plant: time and methods study, production costs, supplies, layout, labour, standardization criteria, etc.; study of basic criteria for the manufacture of electric plant; specifications, materials control and testing, assembly, final testing and trials; primary hydraulic and thermal power stations, and distribution substations: weak operating current techniques, transformers, trouble-shooting techniques; renewable energy sources, systems and components: renewal energy source research: solar, wind, biomass; manufacture of components (solar collectors, photovoltaic cells, solar boilers, wind-power generators, digesters, etc.).	Istituto per la Ricostruzione Industriale (IRI) Direzione Estero Ufficio Cooperazione Tecnica Internazionale Via Veneto 89 00187 Rome, Italy (Rome and other towns in Italy)	24 January 1983 5 months	Advanced technical education or university degree and 5 years experience. Italian, French English, Spanish	-	To be arranged
Geothermal energy technology	Overview of all disciplines involved in geothermal development programmes, review of background in geology, geophysics, geochemistry, petrology and logging of thermal wells, field geology and mapping, geochemical methods and fluid chemistry, corrosion chemistry, mapping of geothermal reservoirs by geophysical methods, monitoring studies, prefeasibility studies and assessment of potential of geothermal prospects.	Geothermal Institute University of Auckland Private Bag Auckland, New Zealand	15 February each year 9 months	Professional qualification. English	15 August	To be arranged

ENERGY (Cont'd)

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Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Geothermal energy technology (engineering)	Overview of all disciplines involved in geothermal development programmes; drilling technology, completion tests, reservoir engineering, prefeasibility studies, corrosion, fluid collection and transmission, power plant design, other geothermal plants, environmental and legal aspects, feasibility studies, costing of projects.	Geothermal Institute University of Auckland Private Bag Auckland, New Zealand	15 February each year 9 months	Professional qualification. English	15 August	To be arranged
Energy technology	Programme for scientists and engineers with an emphasis on the technologies of renewable sources of energy.	School of Energy and Materials King Mongkuts Institute of Technology Bangmod, Bangkok 14 Thailand	June 1983 To be arranged	- Thai and English	20 May	Approx. \$US 1,000 per annum
Power distribution engineering	Practical training in modern distribution systems providing a wide range of experience on distribution networks at voltages up to and including 132kV.	BEI Ltd Thames House Nth. Millbank London SW1P 4QF United Kingdom (Chorley near Manchester or Newcastle upon Tyne)	Early October 1983 To be arranged	Qualification in electrical engineering. English	-	To be arranged
Power station plant	Practical training on modern power station plant, in particular the principles of operation, maintenance and planning.	BEI Ltd Thames House Nth. Millbank London SW1P 4QF United Kingdom (Birmingham)	Early October 1983 To be arranged	Qualification in electrical or mechanical engi- neering. English	-	To be arranged

ENERGY (Cont'd)

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Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Industrial and commercial energy conservation	Analysis of commonly used energy resources; optimum use of prime movers for power generation and other applications; energy intensive industries analysis; conservation in common items of plant and commercial operations; energy recovery in common items of plant and commercial operations; waste heat recovery techniques; energy storage; new or specialized energy saving processes/ techniques; alternative sources of energy; energy demand management; the role of government in pricing and demand management; the role of information resources in energy conservation management; doing business with international contractors; conclusions and recommendations.	Denver Research Institute Industrial Economics and Management Division University of Denver P.O. Box 10127 Denver, Colorado 80208 United States of America	2 May 1983 and 30 January 1984 2 months	University degree. English	-	\$US 2,400
Energy project management and analysis	Both new and renewable and conventional sources of energy will be included for the household and agricultural sectors as well as for commercial and industrial needs. The programme addresses large-scale centralized projects and the development of networks of small-scale decentralized projects.	Institute of Public Service, University of Connecticut 1380 Asylum Avenue Hartford, Ct. 06105 United States of America	20 May 1983 12 weeks	University degree. English	10 April 1983	\$US 5,200
Power system engineering	Power systems engineering, and subjects of interest to industrial and utility power engineers; generation, transmission, distribution, utilization, and system planning; industrial and electric utility power problems subject to engineering and mathematical analysis.	Westinghouse Electric Corp. 777 Penn Center Boulevard Pittsburgh, PA 15235 United States of America	9 July 1983 13 weeks	Engineering degree. English	-	\$US 8,950 (includes housing)

ENVIRONMENT
ENVIRONNEMENT
MEDIO AMBIENTE

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Environmental control in chemical and pharmaceutical industries	Study of the natural and human environment; analysis of the principal sources of air, water and soil pollution; effects of the pollutants on human health; methods of prevention and control; visits to different plants.	Department of Toxicology State University of Ghent Hospitaalstraat 13 B-9000 Ghent, Belgium	Beginning of August 6 weeks Course given every year alternately in English and French	Civil engineer, pharmacist, biologist, chemical engineer. English or French	-	Bf. 40,000 approx.
Bases scientifiques de la protection de l'air	Météorologie et climatologie de la pollution atmosphérique ; physico-chimie de la pollution ; méthodes d'estimations des polluants ; effet de la pollution atmosphérique sur l'environnement et la santé de l'homme ; méthodes de lutte, aspects socio-économiques.	Département d'Environnement Université Paris VII France	Mars 1983 3 mois	Titre universitaire (maîtrise ou équivalent). Français	-	F 10,000
Marine pollution analysis	Training in analyses of metals and organochlorines in biota, by atomic absorption spectrophotometry and gas-liquid chromatography techniques.	FAO Via delle Terme di Caracalla 00100 Rome, Italy (KISR, Kuwait)	January 1983 2 weeks	Professional qualification. English Nomination through Regional Organization for the Protection of the Marine Environment (ROPME), Kuwait	-	-
Management of water resources	Designed for officials in charge of defining policies and managing national water projects, this course aims at strengthening the participants' awareness of problems related to water resources management as well as their competence in achieving optimum efficiency in their utilization in different sectors of consumption. Includes three weeks of study visits.	ILO International Centre for Advanced Technical and Vocational Training 201 Via Ventimiglia 10127 Turin, Italy	5 September 1983 8 weeks	Professional qualification. English	-	To be arranged

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Benefit - cost analysis of natural systems and environmental quality aspects of development	The institutional and planning context; basic economic theory; the analysis of economic activities and their effects on natural systems, environmental quality and receptors; valuation of natural system and environmental quality benefits; valuation of costs of improving environmental quality; and economic - environmental quality models.	East - West Center National Environment Board of Thailand Bangkok, Thailand	It is expected to be held in January 1983 for 10 days	Professional qualification. English	-	-
Environmental impact statement	Resource management planning and pollution control.	Office of National Environment Board Bangkok, Thailand	Middle of 1983 To be arranged	High government officer from any section related in environmental field and private sector. English	-	Free
Environmental pollution monitoring	The course is designed for personnel from developing countries and emphasizes the correct choice of instrumentation and the correct use of analytical techniques for the identification and measurement of industrial and agricultural pollutants such as: heavy metals, chlorinated hydrocarbons, fertilizer residues, organic phosphates, petroleum distillates, biochemical oxygen demand, sewage pollutants, sulphur dioxide and radioactive residues.	Department of Science Bristol Polytechnic Coltharbour Lane Bristol BS16 1QY United Kingdom	April 1983 3-6 months	Degree or equivalent in science, preferably biology or chemistry. English	-	To be arranged
Environment	Throughout 1983 and 1984 ISVR's programme will include short courses on instrumental measurement techniques for noise and vibration control; engine noise and vibration control; time series analysis; noise and vibration control for environmental health officers; machinery design for noise control; industrial audiology and hearing conservation; vibration series, including vibration theory and practice, computer techniques, testing and signal analysis, shock and vibration control; noise course for process plant engineers (with CONCAWE) and various clinical and technical audiology courses.	Institute of Sound and Vibration Research	March, June, July, September,	Professional qualification. English	-	To be arranged

ENVIRONMENT (Cont'd)

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Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Water quality management	Water quality objectives; biological examination and control; chemical and physical characteristics of water; microbiological aspects; water treatment, unit processes; industrial water supply; managing and monitoring water quality; job training/instruction techniques.	National Water Council Overseas Development Group James House 27 London Road Newbury, Berkshire RG13 1JL United Kingdom	To be arranged	Professional qualification. English	-	To be arranged
Water and waste engineering for developing countries	Management: management processes and their application, etc. People: appraisal of social reaction, etc. Technology: water resources; hydrology; water quality and pollution; irrigation; groundwater location and abstraction; water treatment and distribution; pumps and pumping schemes; corrosion; water, sanitation, health relationships; low-cost sanitation; waste-water treatment; industrial wastes; analysis of water and waste-water; solid waste management; air pollution monitoring and control.	WEDC Group Department of Civil Engineering University of Technology Loughborough Leicestershire United Kingdom	8 May 1983 5 weeks	Professional qualification. English	31 March 1983	£2,400
INDUSTRIAL DESIGN DESIGN INDUSTRIEL DISENO INDUSTRIAL						
Design of jigs and fixtures	Design practice, material specifications and heat treatment, metrology, process planning, design exercises in jigs and fixtures.	Central Institute of Tool Design Balanagar Hyderabad 500 037 (A.P.) India	January 1983 11 weeks	Degree in mechanical engineering with one year's experience. English	October	Rs 6,600
Tool design	Gauges, jigs and fixtures, press tools, plastic moulds, die casting dies and cutting tools. Associated subjects: machine tools, design practice, materials and heat treatment, metrology process planning, etc.	Tool Room and Training Centre Wazirpur Ind. Area Delhi 110052, India	September every year 2 years	Engineering graduates. English	-	-

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
General engineering	The study of technologies and techniques in the following fields: design and construction of machine tools; refrigeration and air-conditioning plant; water treatment plant including desalination; urban refuse treatment plant; design and construction of lifting equipment; production of ball and roller bearings; design and construction of mechanical presses, machines and plant for the production of metal packing cases; sinterized products.	Istituto per la Ricostruzione Industriale (IRI) Direzione Estero Ufficio Cooperazione Tecnica Internazionale Via Veneto 89 00187 Rome, Italy (Rome and other towns in Italy)	24 January 1983 5 months	Middle-grade technical and administrative managerial personnel. Italian, French, English, Spanish	-	To be arranged
Plant engineering	A. Design of industrial plants in general, with particular regard to: steel production and ancillary plants, general design of a steelworks (production capacity, siting, terrain, communications, energy supply, water resources); estimates and planning; raw material storage and supply depots, ore and coking-coal preparations; pig production; steel production; hot and cold rolling; lining castings; wire-drawing; cast-iron and steel foundries; ancillary plan for steelworks; oxygen factories; cleansing plant; pumping stations, etc.; thermo-electrical power stations; steam generators, heat turbines, transformers and other electrical equipment, control and monitoring devices. Cement production plants; water desalination plants; complete plants and automatic machinery for the preservation and storage of foodstuffs; general ecological research (water and gas cleansing and purification); storage systems; primary aluminium. B. General plant and industrial complex design, with particular reference to: economic and technical feasibility studies; compatibility of industrial projects with the socio-economic environment, and suitability in regard to national, regional or sectoral development objectives; scheduling, monitoring and evaluating industrial investment.	Istituto per la Ricostruzione Industriale (IRI), Direzione Estero Ufficio Cooperazione Tecnica Internazionale Via Veneto 89 00187 Rome, Italy (Rome and other towns in Italy)	24 January 1983 5 months	Advanced technical education or university degree and 5 years experience. Italian, French, English, Spanish	-	To be arranged

INDUSTRIAL DESIGN (Cont'd)

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Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Industrial design	The purpose of this course is to introduce participants to the basic understanding of the techniques of design process. On-the-spot training, lectures, and factory observation will be offered during the course so that participants may apply this experience to their design works in their own countries.	Japan International Cooperation Agency, JICA, Third Training Division, Training Affairs Department P.O. Box 216 Shinjuku-Mitshi Bldg. 1-1 Nishi-Shinjuku 2 chome, Shinjuku-ku Tokyo 160, Japan	September 1983 2 months	5 years experience in design work. English	-	-
Industrial design	Aims at disseminating newly developed theory and advanced technique on industrial design to active designers from various aspects of industry in order to meet the needs of rapidly changing circumstances; lectures, seminars and workshop.	Korea Design and Packaging Center 128 Yunkun-dong Chongro-ku Seoul, Republic of Korea	October 1983 4 weeks	Professional qualification. Korean	-	\$US 100
Design of internal combustion engines	Environmental and energy aspects of automotive engine design.	Automotive Engineering Group, Institute of Sound and Vibration Research Southampton University Southampton, United Kingdom	October 1 year	University degree or equivalent. English	End August	£3,600
Design engineering for architectural draughtsman	Design and draughting techniques, construction methods, planning, project control and design office management for housing and industrial buildings.	Mapline Training Ltd 112-114 High Street Billericay Essex CM12 9BY United Kingdom	January and July 9 months	Professional qualification. English	-	To be arranged
Production design engineering for manufacturing engineers and design draughtsman	Design and draughting techniques, manufacturing methods, planning, project control and design office, management for industrial products in the mechanical, electronic, automotive and aircraft disciplines.	Mapline Training Ltd 112-114 High Street Billericay Essex CM12 9BY United Kingdom	January, April, July and October each year 9 months	Professional qualification. English	-	To be arranged

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Manufacturing engineering	Includes training in basic manufacturing processes, work planning and principles of engineering design, culminating in a design and manufacture type of project activity.	University of Technology Loughborough Leicestershire LE11 3TU United Kingdom	January 1983 24 weeks	Under- and post-graduate trainees. English	-	£3,600 (tuition only)

INDUSTRIAL INFORMATION AND DOCUMENTATION
INFORMATION ET DOCUMENTATION INDUSTRIELLES
INFORMACION Y DOCUMENTACION INDUSTRIALES

Use of patent documentation as a source of technological information	Introduction to industrial property protection, patent documentation, use of patent documentation as a search tool (for searches of the state of the art and other technical information purposes), survey of INPADOC services, transfer of technology within the framework of industrial property.	Organized jointly by the Austrian Patent Office Kohlmarkt 8-10 A-1014 Vienna, Austria and WIPO	September 1983 (probably) 4 weeks	Professional qualification. English	March 1983	-
Information et documentation industrielles	Cours sur le management d'un service de documentation, l'informatisation de la documentation, l'accès à distance à l'information, l'information économique, le videotex : promesses et réalités.	Bureau Marcel van Dijk 106 bis rue de Rennes, 75006 Paris	Dates à fixer 2-3 jours	Qualifications professionnelles. Français	-	A fixer
Formation intensive à l'informatique	Apporter une formation intensive à l'informatique de gestion à des stagiaires afin de les rendre immédiatement opérationnels dans la fonction d'analyste-programmeur et de leur permettre l'évolution vers les fonctions d'analystes fonctionnels et de chef de projet.	Institut National des Sciences Appliquées de Lyon 20, avenue A. Einstein 69621 Villeurbanne Cedex, France	Septembre 1983 7 mois	Ingénieurs ou formation équivalente. Français	Juin 1983	F 23,000

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Patents	The patent system; patentable subject matters and requirements for patentability and procedures in patent examination.	Philippine Patent Office Midland Building 403 Buendia Avenue Extension Makati Metro Manila Philippines	17 January 1983 4 weeks	University degree in engineering or chemistry. English	-	To be arranged
Informatics and applied mathematics for research	The course is designed largely for developing countries: informatics, operations research, mathematics for scientific research, mathematics for social and economic sciences.	University of Bucharest, Computing Center (under the sponsorship of UNESCO) Str. Academiei No. 14 70109 Bucharest Romania	1 October 1983 12 months	University degree. English	-	\$US 2,000
On-the-job training programme on transfer and development of technology	Economic, legal and institutional aspects of the transfer and development of technology at the sectoral, national and regional levels.	UNCTAD Advisory Service on Transfer of Technology Palais des Nations CH-1211 Geneva 10 Switzerland	On-going	Participants are officials from developing countries nominated by their Governments upon invitation by UNCTAD. English	-	-
Industrial property	Specific "tailored" study tours at a regional level designed for staff who are responsible for the "national structures" in their national offices, who have to set up administrative structures for industrial property in conjunction with technical assistance projects.	WIPO 34, chemin des Colombettes 1211 Geneva 20 Switzerland in co-operation with a number of patent offices or institutions dealing with industrial property matters (France, Switzerland, Netherlands, United Republic of Cameroon)	May 1 month	* English and French	-	-
Industrial property	Practical training at the European Patent Office (EPO), courses and exercises arranged on the following subjects: research documentation; substantive examination.	WIPO 34, chemin des Colombettes 1211 Geneva 20 Switzerland in co-operation with the European Patent Office (EPO) the Hague, Netherlands and Munich, Federal Republic of Germany	June, September, October, November 1 month	* English, French	-	-

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Industrial property	Individual training at national industrial property offices or institutions, to allow the trainees to familiarize themselves with the work process of such offices or institutions.	WIPO 34, chemin des Colombettes 1211 Geneva 20 Switzerland in co-operation with a number of patent offices or institutions dealing with industrial property matters (Belgium, Israel, Federal Republic of Germany)	Generally September/October 1-2 months	* English, French and Spanish	-	-
Industrial property	General survey of the industrial property aspects of economic development, especially in developing countries (theoretical and practical aspects).	WIPO 34, chemin des Colombettes 1211 Geneva 20 Switzerland in co-operation with the Government of Spain and the Industrial Property Registry in Madrid (Madrid, Spain)	September 1 month	* Spanish	-	-
Industrial property	Introduction; general survey of the industrial property aspects of economic development, especially in developing countries; information on the industrial property activities of WIPO.	WIPO 34, chemin des Colombettes 1211 Geneva 20 Switzerland in co-operation with the French Government and the Center for the International Study of Industrial Property (CEIPI) and governments or institutions of the German Democratic Republic, Switzerland, Hungary, Bulgaria, India, Egypt, United Kingdom, Czechoslovakia, United States of America, African Intellectual Property Organization (OAPI, Yaoundé, United Republic of Cameroon) (Strasbourg, France)	September 3 weeks	* English and French	-	-
Industrial property	Theoretical and practical course on trademarks.	WIPO 34, chemin des Colombettes 1211 Geneva 20 Switzerland in co-operation with the German Patent Office in Munich and in Berlin (West)	October 3 weeks	* English and French	-	-

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Industrial property	Study tours to industrial property offices or institutions for high-level staff who have to prepare legislation and set up administrative structures for industrial property.	WIPO 34, chemin des Colombettes 1211 Geneva 20 Switzerland in co-operation with a number of patent offices or institutions dealing with industrial property matters (Sweden, Egypt, United Kingdom, Canada, Federal Republic of Germany, United States of America, Netherlands, France)	Throughout year 1 month	Executive heads of national industrial property offices. English and French	-	-
Industrial property (patent documentation as a source of technological information)	Application of the IPC (International Patent Classification) for document classification and retrieval; efficient use of patent documentation for search purposes; formulation of search requests; the Patent Co-operation Treaty (PCT).	WIPO 34, chemin des Colombettes 1211 Geneva 20 Switzerland in co-operation with the Government of Austria and the Patent Office Vienna, Austria	August 1 month	* English	-	-
Industrial property (patent information)	This training course is a specialized one in the field of patent information for staff members from the technology sector or from institutions engaged in research and development or industrial and agricultural development, in whose official duties technological information based on patent documentation would be useful.	WIPO 34, chemin des Colombettes 1211 Geneva 20 Switzerland in co-operation with the Royal Patent and Registration Office in Stockholm (Stockholm, Sweden)	September 1 month	* English	-	-
Industrial property (patent information and documentation)	General introduction to the patent system; the problems of technical information; the role of patent documents as a source of technical information; the structure of a patent document; the International Patent Classification (IPC); the Patent Co-operation Treaty (PCT).	WIPO 34, chemin des Colombettes 1211 Geneva 20 Switzerland in co-operation with the Government of the Soviet Union and the State Committee for Inventions and Discoveries in Moscow (Moscow, USSR)	June 3 weeks	Degree in technology or in other relevant field.* English	-	-

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Industrial property (technical information as an aid to industrial development: patent documents)	Patent documentation and its utilization as a source of technological information; practical cases of the use of patent documentation; the role of patents in development; regional and international patent co-operation.	WIPO 34, chemin des Colombettes 1211 Geneva 20 Switzerland in co-operation with the European Patent Office and the Commission of the European Communities (The Hague, Netherlands)	September 3 weeks	* English, French and Spanish	-	-
Technology choice and industrial development	The course places the choice of technology in context (including that of the employment problem), systematically develops a methodology for effective choice and examines the consequences of choice.	David Livingstone Institute University of Strathclyde 16 Richmond Street Glasgow G1 1XQ United Kingdom	April and September 12 weeks	Professional qualification. English	-	£3,500 (including accommodation)
Development statistics	New concerns in development policy require new and better statistics. This course aims to strengthen the capacity of officials compiling statistics to improve their range, quality, presentation and possible uses, and to broaden the data base for decision-makers.	Institute of Development Studies University of Sussex Falmer, Brighton Sussex BN1 9RE United Kingdom	11 April 1983 12 weeks	Professional qualification. English	-	£175 per week

INDUSTRIAL PLANNING AND PROGRAMMING
 PLANIFICATION ET PROGRAMMATION INDUSTRIELLES
 PLANEAMIENTO Y PROGRAMACION INDUSTRIAL

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Projets industriels	Séminaire comprenant des exposés et des études de cas en relation avec la genèse, la sélection et la décision de réalisation de projets industriels : les marchés en amont et en aval ; les plans de développement ; la faisabilité ; le financement ; les interventions du secteur public ; les techniques d'organisation et de gestion des entreprises. Le séminaire peut être complété par des séjours guidés dans des organismes belges publics et privés. Les participants sont assistés dans la constitution de leur documentation personnelle. Le programme du séminaire est réglé en fonction de la formation, de l'expérience et du plan de carrière des participants.	Bureau d'Ingénieurs- Conseils Gombert Cadic-Gombert S.A. Chaussée de Charleroi 123a, Bte 7 B-1060 Bruxelles Belgique	A fixer	Humanités complètes plus formation spécialisée plus expérience professionnelle minimum de 2 ans. Français	-	A fixer
Planification industrielle	Planification ; prévisions et réalisations en matière de développement ; relations entre la micro et la macro économie ; l'appareil conceptuel de la prévision économique et de la planification ; les comptes et statistiques ; le calcul de la rentabilité interne des projets ; l'analyse critique des postes du bilan ; les prix de revient, méthodes de calcul ; analyse des coûts.	Société Coopérative MISIFA 14 Pl. Albert Leemans 1050 Bruxelles Belgique	Toute l'année sauf juillet et août variable (selon chaque cas)	Qualifications professionnelles. Français	-	Bf. 15,000 à 40,000 par mois
Curso central de planificación con menciones de especialización en planificación general y política económica y en planificación regional del desarrollo	El curso central de planificación otorga particular atención al desarrollo reciente de metodologías, técnicas e instrumentos de planificación realizándose, además una evaluación permanente de ellas a la luz de las condiciones prevaletientes en América Latina.	Instituto Latinoamericano de Planificación Económica y Social y la Comisión Económica para América Latina Edificio de las Naciones Unidas Av. Dag Hammarskjold s/n Casilla 1567 Santiago, Chile	Abril 1983 6 meses aprox.	Graduado universitario. Español	Diciembre	-

INDUSTRIAL PLANNING AND PROGRAMMING (Cont'd)

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Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Análisis económico y evaluación de proyectos	Introducción; evaluación privada de proyectos; evaluación social de proyectos; análisis de casos de evaluación privada y social.	Instituto Nacional de Capacitación Profesional (INACAP) Av. Chesterton 7028 Casilla 10205 Santiago, Chile	Junio 1983 2 semanas	Calificación profesional. Español	-	\$US 500
Industrial planning	Technical aspects of industrial planning at different levels. Uniform system of industrial planning on national, sectorial and factory level (long-term forecasts, long-term, medium-term and annual plans). Organs of planning co-ordination of the national industrial development plans at international level.	University of Economic Sciences Berlin German Democratic Republic	April, May 1 month	Professional qualification. English	-	To be arranged
Planning and evaluation in industrial promotion programmes in developing countries	Areas of qualification emphasized: methods and techniques required for drafting feasibility studies and project evaluation; formulation of criteria for the selection and adaptation of technology and technology development.	Centre for Technological Cooperation Technical University of Berlin Strasse des 17. Juni 135 D-1000 Berlin (West) 12	1 November 12 months	University degree. (Candidates must come from developing country and be prepared to work in developing country.) German and English	-	-
Planning and promotion of agro industries	Developing an insight into various groups of industries broadly categorized as agro-industries through a study of the scope for each of these under different agro-climatic environments, policies governing them in developing countries and institutional frame-work needed to encourage them; sharing the Indian experience and that of other developing countries in stimulating the growth of agro-industries in a planned manner; and developing skills of preparing feasibility studies for agro-industries and to study alternate technologies and different sizes of plants that can be considered for adoption in developing countries.	Small Industry Extension Training Institute Yousufguda Hyderabad 500 045 India	To be decided 8 weeks	Personnel engaged in industrial promotion, extension, management and technical counselling specially for agro industries. English	-	\$US 2,330

INDUSTRIAL PLANNING AND PROGRAMMING (Cont'd)

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Course or Seminar	General description	Organizer: Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Regional industrial planning and programming	To impart skills in regional planning with focus on industrial development; to impart skills relating to programming of industrial development, project selection and implementation; to provide practical experience in the working of state and district level planning and industrial development institutions through the district industries centres set up and to share the Indian experience in planning and implementation development programmes for small industries, artisans and employment generation particularly at the district level.	Small Industry Extension Training (SIET) Institute Yousufguda Hyderabad 500 045 India	To be arranged 8 weeks	Professional qualification. English	-	\$US 2,330
Introduction to project appraisal	The course will equip participants with the basic tools of analysis in finance, marketing, production and management, and cost/benefit analysis.	Industrial Development Authority Lansdowne House Ballsbridge Dublin 4, Ireland	20 June 1983 8 weeks	Professional qualification. English	-	IR£4,000
Project identification and investment promotion	The course is designed to introduce participants to the principal sources of ideas for industrial investment opportunities and to equip them to develop and evaluate these ideas and to plan and implement a programme of industrial promotion.	Industrial Development Authority Lansdowne House Ballsbridge Dublin 4, Ireland	11 July 1983 8 weeks	Professional qualification. English	-	IR£4,000
Project management	This course is designed to develop the ability of the participants to review the proposal and prospect plans, to draw up implementation plans and to manage the implementation of all aspects of a project to the stage where the facility can be handed over to operative management.	Industrial Development Authority Lansdowne House Ballsbridge Dublin 4, Ireland	September/October 1983 8 weeks	Professional qualification. English	-	IR£4,000
Infrastructure	The in-plant training programmes are designed for executive grade civil servants from government departments and agencies responsible for territorial planning and infrastructure design, for managers of consulting engineering and construction companies and technical directors of individual infrastructure schemes and their maintenance.	Istituto per la Ricostruzione Industriale Direzione Estero Ufficio Cooperazione Tecnica Internazionale Via Veneto 89 00187 Rome, Italy (Rome and other towns in Italy)	24 January 1983 5 months	Professional qualification. English, French, Spanish, Italian	-	To be arranged

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Industrial projects preparation and developmental planning	Project identification, social cost benefit analysis, forecasting, plant capacity determination, plant location, investment criteria, cost analysis, financial analysis, project implementation, project management organization, project evaluation.	Industrial Services Centre P.O. Box 1318 Balaju, Kathmandu Nepal	To be arranged 4 weeks	Professional qualification. English	-	To be arranged
Integrated surveys	Multi-disciplinary surveys for development planning.	International Institute for Aerial Survey and Earth Sciences (ITC) Enschede Netherlands	April and October 7 weeks - 18 months	Professional qualification. English	-	To be arranged
Industrialization with emphasis on agro-based industries	Problems involved in industrial development based on raw materials derived from agriculture including horticulture and animal husbandry. Due attention is given to ways of raising the levels of agricultural production in developing countries, crop protection and the improved use of agricultural tools, equipment and machinery, storage facilities, the processing of agricultural products, management, marketing and trade, co-operatives, credit facilities, investment financing feasibility studies, statistics and planning.	Netherlands Universities Foundation for International Co-operation (NUFFIC) 251 Badhuisweg P.O. Box 90734 2509 LS The Hague Netherlands in co-operation with the Royal Tropical Institute Amsterdam	Mid-May 1983 5 weeks	Professional qualification. English	April	f. 3,000 including tuition fee, full board, lodging and field trip expenses
Regional industrial development for executives (RIDE)	Dissemination of knowledge and skills pertaining to stimulation and execution of regional industrial development. Introduction to: socio-economic development, regional concepts, agricultural development, industrial development; surveying techniques; economic and social aspects of regional development; location of industry; industrial promotion; industrial development; marketing; project evaluation; social evaluation of projects; fieldwork.	Research Institute for Management Science (RVB) Mijnbouwplein 11 P.O. Box 143, Delft Netherlands	July 5 1/2 months	Bachelor's degree or equivalent and 5 years practical experience. English	3 months before start of course	f. 9,700 (tuition only)

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Regional planning	The course will contain a common core with three streams of specialized studies in physical, economic and administrative dimensions of regional development and planning, one of which will be followed by each participant according to experience and professional interest.	Department of Urban and Regional Planning University of Strathclyde 26 Richmond Street Glasgow G1 1XH United Kingdom	October 1983 12 months	Degree or equivalent in relevant subject, or substantial relevant experience. English	-	£2,600 (subject to increase)
Planning and appraisal of agro-industrial projects	All aspects of the planning process from project identification to implementation, including a detailed examination of methods of preparing, appraising, financing and monitoring development projects, and looking at them from both a commercial, financial and national point of view. Emphasis on interdisciplinary co-operation and understanding throughout planning process.	University of Bradford Project Planning Centre for Developing Countries, Bradford West Yorkshire BD7 1DP United Kingdom	26 September 1983 12 weeks	University degree and several years experience of development and/or project work. English	-	£3,000 (estimate includes tuition and accommodation)
Planning and appraisal of industrial projects	All aspects of the planning process from inception to project implementation, including detailed examination of methods of identifying, appraising, financing and monitoring development projects. Various types of industrial projects will be considered. Projects will be studied both from a commercial and a national point of view.	University of Bradford Project Planning Centre for Developing Countries, Bradford West Yorkshire BD7 1DP United Kingdom	10 January 1983 12 weeks	University degree and several years experience of development planning and/or project work. English	-	£2,800 (includes tuition and accommodation)

INVESTMENT PROMOTION AND INDUSTRIAL FINANCING
 PROMOTION DES INVESTISSEMENTS ET FINANCEMENT INDUSTRIEL
 PROMOCION DE LAS INVERSIONES Y FINANCIACION INDUSTRIAL

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Zones franches et développement industriel	Exposé introductif et visite du port d'Anvers ; étude et prospection ; prise en charge par la capitainerie du port afin d'être confronté dans la pratique avec les systèmes appliqués ; séances d'information complémentaires à la Direction des Douanes et Accises à Bruxelles.	Havenbedrijf van de Stad Antwerpen Stadhuis 2000 Antwerpen Belgique	Toute l'année sauf juillet et août 1-2 semaines (éventuellement 1-2 mois)	Niveau universitaire. Français, anglais	-	-
International promotion and foreign investment	Market research; market penetration; international trade promotion; exportation means and techniques; international distribution; export finance and pricing; foreign investment.	International Trade-invest Institute Avenue de Broqueville 2, Bte 7 B-1150 Bruxelles Belgique	To be arranged About 4 months	University degree. English or French	-	To be arranged
Etudes industrielles	Techniques d'évaluation des projects industriels multinationaux.	CEIM - Centre d'Etudes Industrielles du Maghreb 31, rue de Grenade Boîte postale 235 Tanger, Maroc	A arranger	Qualifications professionnelles. Français	-	A arranger
Banca de fomento	Con la colaboración de bancos de desarrollo de América Latina e instituciones financieras y otras entidades de Europa y Asia ALIDE organiza el Programa de Adiestramiento en Servicio PAS-ALIDE, en el cual se ofrecen anualmente más de 72 oportunidades de capacitación en cualquiera de los temas siguientes: administración bancaria; comercio exterior; desarrollo agro-industrial; desarrollo industrial; desarrollo pesquero; desarrollo rural; informática; mercado de capitales; movilización de recursos; promoción de proyectos e inversiones; recursos humanos; vivienda y construcción; transferencia de tecnología.	Alide Paseo de la República 3211 San Isidro Lima, Perú (América Latina, Europa y Asia	Diversas durante el año variable de 2 semanas a 6 meses	Ser funcionario permanente de entidad miembro de ALIDE. Poseer título o grado de nivel superior o haber recibido entrenamiento teórico relacionado con la actividad y/o materia de la beca. Tener un año de trabajo como experiencia mínima en el área del entrenamiento en su entidad de origen Español, inglés, francés, portugués, alemán	-	\$US 50 - \$US 1,500

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Investment planning appraisal for development banks and financial institutions	The course covers the organization, management and financing of development finance institutions, and the contribution they make to development in the industrial and agricultural sectors.	University of Bradford, Project Planning Centre for Developing Countries Bradford, West Yorkshire BD7 1DP United Kingdom	25 April 1983 12 weeks	University degree and several years experience of development and/or project work. English	-	£2,800 (includes tuition and accommodation)
MAINTENANCE AND REPAIR ENTRETIEN ET REPARATION MANTENIMIENTO Y REPARACION						
Corrosion et lutte contre la corrosion	Corrosion électrochimique ; diagrammes d'équilibres électro-chimiques ; études cinétiques de la corrosion ; méthodes expérimentales ; théorie et applications à la lutte contre la corrosion ; principes de protection et cas particuliers de corrosion.	Centre Belge d'Etude de la Corrosion CEBELCOR Avenue Paul Hégar Grille 2 B-1050 Bruxelles Belgique	2 semaines ou 3 mois toute l'année sauf juillet et août	Diplôme de l'enseignement universitaire ou technique supérieur. Français, anglais	-	A arranger
Cadres de maintenance industrielle	Les technologies pluridisciplinaires avancées concernant la maintenance ; l'organisation du travail ; la gestion d'un service de maintenance, par un stage en entreprise avec apports théoriques et pratiques intégrés.	Institut National des Sciences Appliquées de Lyon 20, avenue A. Einstein 69621 Villeurbanne Cedex, France	Novembre 1983 5 mois	Ingénieurs ou formation équivalente. Français	Juin 1983	F 22,425
Corrosion science and technology	Thermodynamics and kinetics of corrosion processes; materials science; electro-chemistry; corrosion of ferrous- and non-ferrous materials; corrosion in industrial plants; corrosion protection; testing methods in corrosion and corrosion protection.	Corrosion Study Center "A. Daccò" Faculty of Sciences University of Ferrara Via L. Borsari, 46 I-44100 Ferrara, Italy	February 45 days	University degree in chemistry, engineering or physics. Italian	30 November	lire 130,000

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Corrosion monitoring and measurement	Detection and measurement of corrosion in high capital cost process plant. Course can include basic corrosion theory and other related corrosion engineering interests. Courses can be directed to the following industries: oil industry (production and treating), chemical/petrochemical, cooling water systems, water supply, steel production, desalination plant. Methods applicable are outlined and examined.	Corrosion Monitoring Consultancy-CMC "St Pirans" Denchworth Road Wantage, Oxon. OX12 9AU United Kingdom	To be arranged 2-4 days	Professional qualification. English	-	To be arranged
Organization of planned maintenance	The course covers all aspects of planned maintenance and the ways in which they can be combined to meet the needs of the participants.	Crown Agents Training Services 4 Millbank London SW1P 3JD United Kingdom	January, April, July and October 1983 10 weeks	Engineering officers occupying middle/senior management positions in the field of maintenance. English	-	£3,500 fully residential
Science laboratory equipment	Course designed for technical staff in developing countries who are directly involved in the use, maintenance and repair of science laboratory equipment. Spectroscopy, UV-vis, IR, AA; gas chromatography; HPLC; electrochemical equipment; specialized equipment. Instrumentation science: basic electronics and optics for instrumentation, analytical techniques, scientific glassblowing.	Department of Science Bristol Polytechnic Coldharbour Lane Bristol BS16 1QY United Kingdom	September annually 6-12 months	Scientific or technical education with 4-5 years experience. English	-	To be arranged

MANAGEMENT AND INDUSTRIAL ADMINISTRATION
 GESTION ET ADMINISTRATION INDUSTRIELLE
 GESTION Y ADMINISTRACION INDUSTRIAL

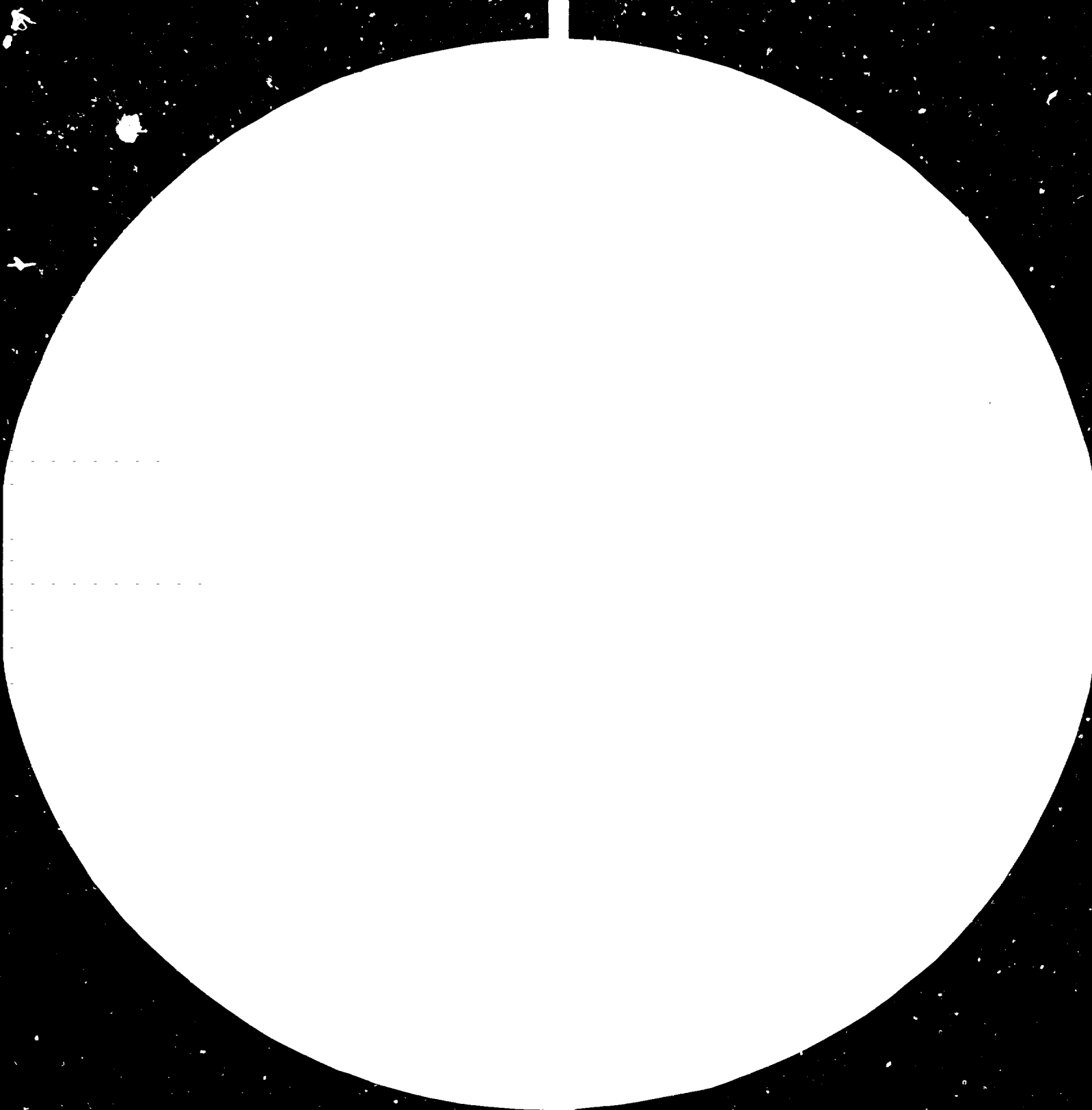
Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Management	Short courses (more than 300) covering virtually all significant fields of management.	Australian Management Training College Australian Institute of Management 135 Walker Street North Sydney, NSW 2060 Australia	Throughout year 1-28 days	Professional qualification. English	-	\$A 95-1,800
Management	Courses are organized on: finance and investment strategies; training systems for supervisors; training methodology; quantitative business management; professional practice management; executive management; advanced training of executives; small-scale industry management; retail enterprise management; financial management; business administration; mini-computers and business applications; marketing strategies; computers in business management.	Financial Management Research Centre University of New England Armidale, NSW 2351 Australia	Throughout year 2-12 weeks	Professional qualification. English	-	\$A 550-6,000 (includes accommodation)
Measurement, diagnosis and control of production operations	Work on specific production problem leading to a report for management, making recommendations.	Bangladesh Management Development Centre 4 Sobhanbag Mirpur Rd Dacca 7, Bangladesh	Once or twice a year 16 weeks	Executives engaged in production operation. English	-	To be arranged
Management	Courses in: industrial management; personnel management; basic management for senior supervisors; management of maintenance workshops and spare parts inventories; management consultancy; basic management for middle level executives; marketing, planning, research and analysis; measurement, diagnosis and control of production operations; enterprise training managers; accounting information for management planning and control.	Bangladesh Management Development Centre 4 Sobhanbag Mirpur Road Dacca 7, Bangladesh	To be arranged 4 weeks-1 year	Professional qualification. English	-	To be arranged

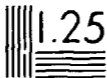
Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Gestion des entreprises	Séminaire organisé par des ingénieurs-conseils spécialisés en organisation et gestion des entreprises. Exposés et études de cas suivant un programme réglé d'après les domaines d'intérêt des participants, par exemple : gestion du personnel ; comptabilité, recherche opérationnelle, gestion budgétaire ; gestion des approvisionnements et des stocks ; organisation de la production ; étude du travail ; gestion des équipements, choix des investissements, organisation des ventes. Le séminaire peut être complété par des séjours guidés dans des entreprises et organismes publics belges.	Bureau d'Ingénieurs-Conseils Gombert Cadic-Gombert S.A. Chaussée de Charleroi 123a, Bte 7 B-1060 Bruxelles Belgique	A fixer	Humanités complètes plus formation spécialisée plus expérience professionnelle minimum de deux ans. Français	-	A fixer
Organisation et gestion des entreprises	Stage individuel organisé par des ingénieurs-conseils spécialisés en organisation et gestion des entreprises. Comprend des exposés et discussions, des lectures dirigées d'ouvrages généraux et de rapports d'études, des séjours guidés dans des entreprises et organismes publics belges, la constitution d'une documentation personnelle, la rédaction du rapport de stage. Programme du stage fixé de commun accord en fonction de la formation et de l'expérience du stagiaire ainsi que de son plan de carrière. Sujets pouvant relever des divers domaines de la gestion tels que la direction générale, la direction du personnel, la production, les ventes, la gestion des équipements, la gestion des approvisionnements.	Bureau d'Ingénieurs-Conseils Gombert Cadic-Gombert S.A. Chaussée de Charleroi 123a, Bte 7 B-1060 Bruxelles Belgique	A fixer	Humanités complètes plus formation spécialisée plus expérience professionnelle minimum de deux ans. Français	-	A fixer
Análisis de problemas y toma de decisiones	Conceptos básicos; las decisiones dentro del ambito de la empresa; el proceso de toma de decisiones; distintos modelos para la toma de decisiones; resumen y conclusiones.	Instituto Nacional de Capacitación Profesional (INACAP) Av. Chesterton 7028 Casilla 10205 Santiago, Chile	Julio 1983 2 semanas	Calificación profesional. Español	-	\$US 500
Ingeniería económica	Principios de ingeniería económica; conceptos fundamentales; decisión; alternativas múltiples; retiros y reemplazos; evaluación de un proyecto.	Instituto Nacional de Capacitación Profesional (INACAP) Av. Chesterton 7028 Casilla 10205 Santiago, Chile	Mayo 1983 2 semanas	Sólidos conocimientos de matemáticas. Español	-	\$US 500

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Gestion et administration des entreprises	Grande variété de sujets dans le domaine de la gestion.	Gouvernement du Congo Brazzaville, Congo	A fixer	Qualifications professionnelles. Français	-	A fixer
Management	The syllabus covers all functional areas of management as well as inter-disciplinary subjects necessary as background for effective management.	The Mediterranean Institute of Management (M.I.M.) P.O. Box 4019, Nicosia Cyprus	September 10 months	University degree. English	-	£C 240
Responsables de production en commande numérique	Acquisition des compétences nécessaires pour organiser, gérer et coordonner un parc de machines outils à commande numérique.	Institut National des Sciences Appliquées de Lyon 20, avenue A. Einstein 69621 Villeurbanne Cedex, France	Septembre 1983 5 mois	Techniciens supérieurs, ingénieurs ou formation équivalente. Français	Juin 1983	F 18,400
Techniques et gestion de la production	Permettre à des cadres possédant une expérience en fabrication, d'acquérir une formation complémentaire en organisation et en gestion de la production.	Institut National des Sciences Appliquées de Lyon 20, avenue A. Einstein 69621 Villeurbanne Cedex, France	Novembre 1983 5 mois	Ingénieurs ou formation équivalente. Français	Juin 1983	F 21,275
Management	Courses on: industrial costing for specialists; costing for non-commercial background; costing for supervisors; marketing management; developing sales force ability; marketing research; purchasing and storing; performance evaluation; operational research; work study; production planning and control; maintenance management; quality control; productivity improvement technique.	P.V.T.D. c/o UNDP Resident Representative P.O. Box 982 Cairo, Egypt	To be arranged 1-7 months	Professional qualification. English	-	\$US 120- \$US 480

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Management of maintenance of industrial equipment	Principles of management; principles of maintenance; management of maintenance; cost effectiveness of maintenance; economy of maintenance; maintenance systems in industrialized countries; maintenance systems in less industrialized countries; examples of maintenance; case studies; recording, statistics and research of wear and heavy wear; field work; inspection of a factory.	Carl Duisberg-Gesellschaft e.V. Hohenstaufenring 30-32 D-5000 Köln 1 Federal Republic of Germany (Cairo, Egypt)	To be arranged 2 weeks	Engineering degree and at least 3 years industrial experience at executive or managerial level. English	-	To be arranged
Works management at the executive level	Specialized practical, individual further training in business administration at the management level.	Carl Duisberg-Gesellschaft and Zentralstelle für Arbeitsvermittlung der Bundesanstalt für Arbeit Hohenstaufenring 30-32 D-5000 Köln 1 Federal Republic of Germany	To be arranged 12-18 months incl. language training	Technical and management personnel who have completed professional training and have practical professional experience. German	-	To be arranged
Management techniques	Short courses on: production planning and scheduling; quality control circles; material management; supervisory management; taxation in Hong Kong; office management; management courses for specific manufacturing industries.	The Hong Kong Productivity Centre Sincere Building 173 Des Voeux Road Central Hong Kong	To be arranged	Position in management. English, Chinese	-	To be arranged
Financial management for national development	This programme has been designed basically for young financial administrators engaged on the task of socio-economic development in their respective countries. The programme includes: analysis of socio-economic environment; issues in government accounting, budgetary and financial control management techniques for financial management; management accounting and financial management in government owned undertakings.	ISTM, DP&AR, MHA JNU Campus Hostel Block I New Delhi-22 India	January and March 1983 8 weeks	Government officials in developing countries working at middle management level, responsible for financial management, financial planning and control, including system of budgeting. English	-	To be arranged

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Vertical resolution: 1.0, 1.1, 1.25, 1.4, 1.6, 1.8, 2.0, 2.2, 2.5, 2.8, 3.2, 3.6, 4.0, 4.5, 5.0, 5.6, 6.3, 7.1, 8.0, 9.0, 10.0, 11.2, 12.5, 14.3, 16.0, 18.0, 20.0, 22.4, 25.0, 28.2, 31.5, 35.7, 40.0, 45.0, 50.0, 56.2, 63.0, 70.7, 80.0, 90.0, 100.0, 112.2, 125.0, 141.4, 160.0, 180.0, 200.0, 223.9, 250.0, 281.8, 315.0, 353.5, 400.0, 450.0, 500.0, 562.3, 630.0, 707.1, 800.0, 900.0, 1000.0, 1122.0, 1250.0, 1414.0, 1600.0, 1800.0, 2000.0, 2239.0, 2500.0, 2818.0, 3150.0, 3535.0, 4000.0, 4500.0, 5000.0, 5623.0, 6300.0, 7071.0, 8000.0, 9000.0, 10000.0

Horizontal resolution: 1.0, 1.1, 1.25, 1.4, 1.6, 1.8, 2.0, 2.2, 2.5, 2.8, 3.2, 3.6, 4.0, 4.5, 5.0, 5.6, 6.3, 7.1, 8.0, 9.0, 10.0, 11.2, 12.5, 14.3, 16.0, 18.0, 20.0, 22.4, 25.0, 28.2, 31.5, 35.7, 40.0, 45.0, 50.0, 56.2, 63.0, 70.7, 80.0, 90.0, 100.0, 112.2, 125.0, 141.4, 160.0, 180.0, 200.0, 223.9, 250.0, 281.8, 315.0, 353.5, 400.0, 450.0, 500.0, 562.3, 630.0, 707.1, 800.0, 900.0, 1000.0, 1122.0, 1250.0, 1414.0, 1600.0, 1800.0, 2000.0, 2239.0, 2500.0, 2818.0, 3150.0, 3535.0, 4000.0, 4500.0, 5000.0, 5623.0, 6300.0, 7071.0, 8000.0, 9000.0, 10000.0

Diagonal resolution: 1.0, 1.1, 1.25, 1.4, 1.6, 1.8, 2.0, 2.2, 2.5, 2.8, 3.2, 3.6, 4.0, 4.5, 5.0, 5.6, 6.3, 7.1, 8.0, 9.0, 10.0, 11.2, 12.5, 14.3, 16.0, 18.0, 20.0, 22.4, 25.0, 28.2, 31.5, 35.7, 40.0, 45.0, 50.0, 56.2, 63.0, 70.7, 80.0, 90.0, 100.0, 112.2, 125.0, 141.4, 160.0, 180.0, 200.0, 223.9, 250.0, 281.8, 315.0, 353.5, 400.0, 450.0, 500.0, 562.3, 630.0, 707.1, 800.0, 900.0, 1000.0, 1122.0, 1250.0, 1414.0, 1600.0, 1800.0, 2000.0, 2239.0, 2500.0, 2818.0, 3150.0, 3535.0, 4000.0, 4500.0, 5000.0, 5623.0, 6300.0, 7071.0, 8000.0, 9000.0, 10000.0

Resolution: 1.0, 1.1, 1.25, 1.4, 1.6, 1.8, 2.0, 2.2, 2.5, 2.8, 3.2, 3.6, 4.0, 4.5, 5.0, 5.6, 6.3, 7.1, 8.0, 9.0, 10.0, 11.2, 12.5, 14.3, 16.0, 18.0, 20.0, 22.4, 25.0, 28.2, 31.5, 35.7, 40.0, 45.0, 50.0, 56.2, 63.0, 70.7, 80.0, 90.0, 100.0, 112.2, 125.0, 141.4, 160.0, 180.0, 200.0, 223.9, 250.0, 281.8, 315.0, 353.5, 400.0, 450.0, 500.0, 562.3, 630.0, 707.1, 800.0, 900.0, 1000.0, 1122.0, 1250.0, 1414.0, 1600.0, 1800.0, 2000.0, 2239.0, 2500.0, 2818.0, 3150.0, 3535.0, 4000.0, 4500.0, 5000.0, 5623.0, 6300.0, 7071.0, 8000.0, 9000.0, 10000.0

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Management techniques for development administration	This programme has been designed for administrators engaged in the tasks of socio-economic development in their respective countries. Programme includes: analysis of socio-economic environment; management in government; organizational behaviour; management techniques.	ISTM, DP&AR, MHA JNU Camp's Hostel Block I New Delhi-22, India	September and December 1983 12 weeks	Government officials in developing countries working at middle management level, responsible for planning and implementation of development programmes. English	-	To be arranged
Industrial engineering	Short courses are arranged on: programme for advancement of management and productivity; executive effectiveness; working capital management; performance appraisal and counselling; creativity in organizations; integrated materials management; project management; managing small units; decision-making technology in agriculture and agro-based industry; corporate strategic planning; management information system; electronic data processing for managers; effective management for training; worker and productivity; quantitative techniques for decision-making; corporate energy plans; industrial boilers: design operation and maintenance; air pollution control; utility management; design, operation and maintenance of furnaces and kilns; water treatment for boilers; condition monitoring; advanced maintenance management; corrosion control; low cost devices for improving productivity.	National Productivity Council Productivity House Lodi Road New Delhi 110003 India (various cities in India)	Throughout year 1983 3-14 days	Professional qualification. English	-	To be arranged
Management	Courses on: foundation of management principles; management development; personnel management, etc.	New India Training College Bombay, India	August-November 10 days-1 month	Professional qualification. English	-	-
Management	Seminars to meet the needs of Arab states on technological, managerial and administrative staff: management; training of instructors; production management; cost accounting; management by objectives; stock control; maintenance; industrial safety; industrial planning; industrial statistics; project evaluation; quality control.	Arab Industrial Development Organization (AIDO) P.O. Box 3156 Al-Saadoon, Baghdad Iraq	To be arranged 1-2 weeks in 1983-84	Professional qualification. Arabic	-	To be arranged

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Public enterprise management	The project study area could cover such subjects as industrial promotion; project appraisal; small industry development; industrial estates/export processing zone development, etc.	DEVCO - State Agencies Development Co-operation Organization Limited Kildress House Pembroke Row Dublin 2, Ireland	August 1983 8 weeks	Professional qualification. English	21 May 1983	IR£6,000
Public enterprise management	To increase the capacity of each participant to manage effectively a functional or technical (e.g. planning, personnel, maintenance) unit in his/her present organization. The programme will be highly participative and the main module will consist of a four-week in-plant assignment specifically designed to meet the participants own particular needs.	Irish State Agencies Development Co-operation Organization (DEVCO) and Institute of Public Administration 57-61 Lansdowne Road Ballsbridge Dublin 4, Ireland	August 1983 7 weeks	Senior managers with total responsibility in own organization for the area to be studied. English	End June 1983	To be arranged
Management development	Particular emphasis on the nature of management; the management environment planning; organization and organizing; people in organizations; communications; control; problem solving; personal skills and management techniques.	Institute of Public Administration 57-61 Lansdowne Road Ballsbridge Dublin 4, Ireland	January 1983 3 months	Professional qualification. English	-	To be arranged
Management science	The programme is interdisciplinary and emphasizes the systems approach to planning. Mandatory courses: all study fellows attend certain courses in the subject areas of research methodology, statistics, economics, administration and systems. Elective courses: research methodology, statistics, operations research, sample surveys, economics, administration, systems, informatics, accounting, computer science.	Trinity College University of Dublin Dublin 2, Ireland	October 1983 12 months	Professional qualification. English	1 October	IR£3,300

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Cross cultural management	Participants with different cultural backgrounds can get a clue to develop new management styles of their own through a comparison between the Japanese management system and theirs, observation tours and discussions with lecturers and Japanese managers.	The Association for Overseas Technical Scholarship, Japan 30-1, Senju Azuma 1-chome, Adachi-ku, Tokyo, Japan	May, October 1983 and 1984 3 weeks	Junior and senior managers of developing countries with approx. 10 years of practical experience in trans-national business activities. English	5 months before the commencement of the programme	Y 327,000
Production management	Participants will review the whole process of production from planning to delivery, through production simulation, exercises and in-plant practices and study how to increase total production efficiency in a factory.	The Association for Overseas Technical Scholarship, Japan 30-1, Senju Azuma 1-chome, Adachi-ku, Tokyo, Japan	February 1983 and 1984 6 weeks	Engineers and managerial staff who are (or expected to be) in charge of production control or factory management in industries of developing countries. English	5 months before the commencement of the programme	Y 550,000
Financial management	Cash flow analysis, ratio analysis, investment analysis/cost, income statement and balance sheet interpretation.	Industrial Services Centre P.O. Box 1318 Belaju, Kathmandu Nepal	To be arranged 2 weeks	Professional qualification. English	-	To be arranged
Management and industrial development	Principles of operational management in industry. The training programme provides for a series of personalized introductions on the development of the product programme and market potentials, production management, technology development, investment planning and costing, operations research, licensing and international industrial collaboration. The programme will further include self-study of selected literature and field-observations. An experienced CBO-associate will provide guidance as tutor and programme co-ordinator.	CBC - Centre for Management and Industrial Development Exchange Building Coolsingel/Meent Postbox 30042 3001 DA Rotterdam Netherlands	Commencement to be arranged. 8-12 weeks	University graduates in engineering, economics or business administration, preferably with experience in industry. English	-	To be arranged

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Financial management	Advanced training in managerial finance, emphasizing managerial accounting; working capital management; financial planning and control; investment appraisal to individuals currently performing a financial function or aspiring to do so.	Research Institute for Management Science (RVB) P.O. Box 143 2600 AC Delft Netherlands	July 5 1/2 months	Professional qualification and 5 years business experience. English	3 months before start of course	f. 9,700
General management	To develop executives with general management capabilities for small and medium sized enterprises in developing countries; to develop specialists in corporate planning for state enterprises in developing countries; to develop civil servants with a high degree of awareness of managerial functions and processes.	Research Institute for Management Science (RVB) P.O. Box 143 2600 AC Delft Netherlands	January and July 5 1/2 months	Professional qualification and business experience. English	3 months before start of course	f. 9,700
Industrial consultancy (advanced training course)	Investment analysis and project evaluation; transfer of technology; group technology; interview techniques; presentation of results and recommendations; problem isolation and solving; motivation; M.I.S. and other recording systems; communication; the principles and practice of management consultancy in the Netherlands; study of industrial structure reports in the Netherlands, followed by in-plant study of a number of Dutch industrial branches; discussions on selected individual papers of participants; business simulation game played with the assistance of a computer; evaluation of training course by participants (oral and written).	Research Institute for Management Science (RVB) Delft Venue: Netherlands	September 3 months	Management consultants or training National Productivity Organizations or equivalent institutes, of APO members countries. English	-	-
Production management	To provide plant supervisors and industrial officers with an exposure to the different aspects of production management; to create an awareness of the role of the function in the overall management of industrial enterprises.	Research Institute for Management Science (RVB) P.O. Box 143 2600 AC Delft Netherlands	January 5 1/2 months	Professional qualification and 5 years business experience. English	3 months before start of course	f. 9,700

MANAGEMENT AND INDUSTRIAL ADMINISTRATION (Cont'd)

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Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Management	Middle to high level management administrative training.	New Zealand Administrative Staff College P.O. Box 12059 Wellington-North New Zealand	To be arranged	Professional qualification. English	-	NZ\$2,000
General management	Principles of management; business promotion.	National Management Development Centre Karachi Pakistan	Throughout year 3 weeks	Middle level managers. English	-	-
Management	Production management and training of trainers.	National Refinery Ltd. 7.B Industrial Zone Korangi Karachi, Pakistan	March, September & November 1983 and 1984 2 weeks	Engineering degree. English	-	-
Advanced management	Business policy; finance and control; profit planning; budgetary control; financial strategy; administrative practices; management system.	Pakistan Institute of Management Shahrah Iran Clifton Karachi 6 Pakistan (Murree)	20 August 1983 1 week	Senior executives from business and industry. English	-	Prs 3,000
Management	Management process; personnel management; financial analysis; production management; marketing management.	Pakistan Institute of Management Shahrah Iran Clifton Karachi 6 Pakistan	Twice every year 5 weeks	Junior and middle managers from business and industry.	-	Prs 1,600 to 2,500

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Técnicas de administración modernas	Cursos sobre: administración financiera de la empresa; administración del crédito; el flujo de efectivo; análisis financiero de la empresa; programa técnico en administración de reaseguro; administración por objetivos; estrategia de mercadec; estrategias y técnicas para créditos y cobros; toma de decisiones; técnicas de organización; como administrar las relaciones públicas y la publicidad de su empresa; organización y control de vendedores; formación de supervisores; promoción de ventas y técnicas de exportación; técnicas para la planeación y desarrollo de los recursos humanos; psicología y técnicas de ventas; el arte de negociar un contrato colectivo; fundamentos de mercadotecnia; métodos estadísticos para elaborar informes; administración de sueldos y salarios; estrategias para administrar precios; aspectos legales de la gestión de ventas; crédito y cobranzas; territorio de ventas y canales de distribución.	Asociación Panameña de Ejecutivos de Empresa Apartado 1331 Zona 1, Panamá	En el transcurso del año 4 días- 7 meses	Título universitario. Español	-	B.150 - 750
Management	Course covering main fields of management.	Coprai-Associação Industrial Portuguesa Praça das Industrias 1399 Lisbon codex Portugal	To be arranged	Professional qualification. Portuguese	-	To be arranged
Management	Courses on: methods and techniques of planning and forecasting; management of industrial enterprises; employee development organization; marketing and economic management; organization of information systems and operational research; design and organization of new industrial units; management of joint ventures; management of energy resources; middle level management development; management of agro-industrial enterprises; production and work organization.	CEPECA - International Centre for Management Development Otopeni, Soseaua Odai No.20 Bucharest, Romania	March, April, May, June and September 6 weeks	Professional qualification. English or French	-	\$US 450 per week (accommodation and meals included)
Industrial engineering and production management	Production management skills; materials management; sales; finance; personnel; general management; mathematics and statistics; economics; industrial consultancy field work.	ILO/SIDAM P.O. Box 964 Mogadiscio, Somalia	End September each year 1 semester	Professional qualification. English	-	-

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Industrial management	Industrial engineering and production management skills; materials management; marketing and sales management; financial management; personnel management; general management and organization structure; mathematics and statistics; economics; industrial consultancy field work.	ILO/SIDAM P.O. Box 964 Mogadiscio, Somalia	End September each year 2 semesters	Professional qualification. English	-	-
Master en gestion de empresas	Abarca las siguientes áreas: financiera; gestión empresarial; métodos cuantitativos: economía.	Facultad de CC.EE y Empresariales (ESTE) de la Universidad de Deusto San Sebastián España	Octubre de cada año 14-24 meses lectivos	Titulado superior. Español	Septiembre	Matrícula: Ptas 20.000 Tasas: Ptas 200.000
Business administration	Courses covering the following fields: production and operations management; marketing; financial management; control; managerial economics; environmental analysis for management; human behaviour in organizations; business policy. During the second year of the programme students can choose among a large number of elective courses, among them: advanced control; anthropology and ethics; computer-based information systems; financial decision analysis; forecasting methods; international finance; international marketing strategy; investment management; management of financial institutions; management of technology; manufacturing policy; marketing strategy; planning and control; systems and processes; retailing; starting new ventures; the operating manager.	Instituto de Estudios Superiores de la Empresa - IESE Universidad de Navarra Av. Pearson 21 Barcelona 34 Spain	15 September 21 months	Univeristy graduates. English and Spanish	31 March	\$US 4,000 per year
Advanced management	To increase knowledge of the basic functions and disciplines of management; to examine significant trends in the environment; to take a general management perspective of the functioning of the enterprise; to develop decision-making skills.	International Management Institute (IMI) 4, chemin de Conches CH-1231 Geneva Switzerland	2 May 1983 8 weeks	Professional qualification. English	-	SWF 15,000

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
International executive programme	The objectives are to improve decision-taking and long-term policy making capabilities through an examination of how major trends in the social, political and economic environment impact on the organization and through acquisition of management tools and concepts with which to meet new challenges.	International Management Institute (IMI) 4 chemin de Conches CH-1231 Geneva Switzerland	28 February and 25 March 1983 4 weeks	Experienced general managers and senior executives. English	-	SwF 9,000
Management	The IMI organizes short courses: innovation in board practices on both sides of the Atlantic; international programme for senior executives; international executive programme; seminar on corporate structure; seminar on management of research and development; personnel management; financial management; marketing; environment management; management development; accounting and control; marketing of technology and know-how.	International Management Institute (IMI) 4, chemin de Conches CH-1231 Geneva Switzerland	Throughout year 3 days- 28 days	Professional qualification. English	-	SwF 4,000 - SwF 10,500
Management	The Institute organizes courses on: improving sales management results; supervisory management; systematic plant maintenance; project planning and management for higher productivity; management leadership; productivity measurement at firm level; personnel management; improving marketing information system for decision-making; warehousing and stores management; production management workshop; developing organizational structure and scheme of service; standard costing; target setting and incentives; management by objectives; formulation and implementation of short and long range marketing strategy; management science techniques for higher productivity; tools and techniques for analyzing sales effort; corporate planning; management training and personnel development; financial budgeting, planning and control; evaluation of management training programmes; auditing marketing performance for improvement; costing techniques and cost effectiveness.	National Institute for Productivity (NIP) Dar-es-Salaam United Republic of Tanzania	To be arranged 1-2 weeks	Professional qualification. English	-	To be arranged

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Site management	Communications in the construction industry; industrial relations; working conditions; health and safety; contractual procedures; management planning; productivity techniques; site surveying and levelling.	Crown Agents Training Services 4 Millbank London SW1P 3JD United Kingdom	February, May and September 1983 12 weeks	Managers/officers in the field of construction. English	-	£4,500 (certificate) £4,800 (diploma) fully residential
Management	The EITB offers a large number of training courses in such fields as: staff development; coaching and appraisal skills; manager and supervisor development; training planning; managing the training function; systematic design of operator training; aptitude and intelligence testing; personality assessment; microelectronics; manpower and training implications; computer numerical control; microelectronics for trainers; introduction to microprocessors; practical computer programming; etc.	Engineering Industry Training Board Webton Court Allerton Park Leeds LS7 4ND United Kingdom	June - February 5-10 days	Professional qualification. English	-	To be arranged
Basic work study	Gives training in the basic work study techniques. Suitable for people returning to departments where supervision is available for their early projects. Sessions are backed with exercises to illustrate theory and to give practice in its application.	Fielden House Productivity Centre Limited The Shirley Campus 856 Wilmslow Road Didsbury Manchester M20 8RY United Kingdom	Throughout year 4-10 weeks	Professional qualification. English	-	Between £445 and £795 + VAT
Managing resources: development programme	Managing people; managing costs; managing output; managing materials and maintenance; managing change; managing training; managing the micro-chip.	Fielden House Productivity Centre Limited The Shirley Campus 856 Wilmslow Road Didsbury Manchester M20 8RY United Kingdom	4 April 1983 46 weeks	Professional qualification. English	-	£2,500 for full 46 week programme Modular fee by arrangement

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Industrial engineering	Courses on: foundry engineering; industrial metallurgy; materials selection for design engineers; analytic procedures for testing laboratories; investigation of the failure of metallic components and structures; design, construction and maintenance of precision engineering and equipment; product design and development for injection moulded plastic parts; basic drawing techniques and drawing office practice; testing of plastics and other polymeric materials; specialized product design/production engineering; design, manufacture and operation of injection moulds for plastics; injection mould design; product planning and control for research managers.	Fulmer Research Institute Ltd Stoke Poges Slough SL2 4QD United Kingdom	1983 3-6 months	Professional qualification. English	-	£1,500 + £2,000 per month
General management	The course is concerned with the personal development of those in mid-career. Each member is likely to gain significantly in terms of the confidence and assurance with which people are handled and decisions are taken.	Henley-The Management College, Greenlands Henley-on-Thames Oxon RG9 3AU United Kingdom	3 January, 23 May and 17 October 1983 9 1/2 weeks	Professional qualification. Age range usually 30-45. Substantial management experience. English	-	£5,500 + VAT approx.
International management	A course designed for directors, senior managers, administrators and diplomats whether working in head offices or overseas, who need to update their strategic thinking and to advance already proven skills in operating successfully across cultural and national boundaries.	Henley-The Management College, Greenlands Henley-on-Thames Oxon RG9 3AU United Kingdom	11 April and 5 September 1983 4 weeks	Professional qualification. English	-	£2,850 + VAT approx.
Management	The course is intended to bring senior executives up-to-date in important aspects of management appropriate to their level. It culminates in a consideration of the broad perspectives of planning, policy making and control.	Henley-The Management College, Greenlands Henley-on-Thames Oxon RG9 3 AU United Kingdom	11 April and 5 September 1983 4 weeks	Professional qualification; senior executive experience. Age range usually 43 and over. English	-	£2,850 + VAT approx.

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Industrial administration	Factory organizational arrangements; human aspects; planning/controlling production; maintaining quality standards; controlling manufacturing costs; basis of computers and computer systems; additional material aids; communications.	Institute of Production Control National Westminster House, Wood Street Stratford-upon-Avon Warwickshire United Kingdom	January, August 10 weeks	Professional qualification. English	-	£3,500 (including accommodation and course documentation)
Materials management	Course refers to that grouping of material-related executive functions which regulate the complete system of material flow embracing procurement, storage and handling, production and inventory control, packaging, warehousing and distribution.	Institute of Production Control National Westminster House, Wood Street Stratford-upon-Avon Warwickshire United Kingdom	January, August 18 weeks	Professional qualification. English	-	£6,500 (including accommodation and course documentation)
Production control	Organization and management; communications; production planning and documentation; material control; statistics and operational research; computers and systems analysis.	Institute of Production Control National Westminster House, Wood Street Stratford-upon-Avon Warwickshire United Kingdom	January, August 18 weeks	Professional qualification. English	-	£6,500 (including accommodation and course documentation)
Production control	Production planning; communications; organization and management; work study; materials and stock control; principles of factory management and sound industrial relations; costing and budgetary control; critical path analysis; computers; information and report writing; statistics and operational research.	Institute of Production Control National Westminster House, Wood Street Stratford-upon-Avon Warwickshire United Kingdom	April, June, September, November 4 weeks	Professional qualification. English	-	£1,600 (including accommodation and course documentation)
Production management	Capacity management and production control; marketing and sales management; analyzed techniques; materials and inventory management; human relationships and communications; transport planning and physical distribution, organization and management; quality and reliability; the modern approach to computerization; financial and accounting management; policy and boardroom procedures; understanding the balance sheet.	Institute of Production Control National Westminster House, Wood Street Stratford-upon-Avon Warwickshire United Kingdom	April, June, September, November 4 weeks	Professional qualification. English	-	£1,600 (including accommodation and course documentation)

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Production management	Production management concepts; analytical techniques - work study; network analysis; value analysis; statistical methods; operational research; data processing; economics management accounting; industrial psychology and sociology; terotechnology; policy and practice; production planning and control; cost analysis and control; plant layout and materials handling; management of quality and reliability; marketing aspects; manpower management; industrial relations; design of work systems.	Institute of Production Control National Westminster House, Wood Street Stratford-upon-Avon Warwickshire United Kingdom	January, August 20 weeks	Professional qualification. English	-	£6,500 (including accommodation and course documentation)
Production management and control	The Institute organizes throughout the year courses on: production management; production control; materials and stock control; computers and systems analysis for production; principles of factory management; operational research; industrial development and administration.	Institute of Production Control National Westminster House Wood Street Stratford-upon-Avon Warwickshire United Kingdom (Stratford-upon-Avon, Malta, Hong Kong, Singapore, Cyprus)	Throughout year 18 weeks- 1 year	Professional qualification. English	-	From £5,750
General management	The objective of the course is to identify the problems encountered in line management and to investigate techniques to deal with these problems. The following topics are discussed: management of self; management of people; management of assets; management of productivity; management in the market place; managing in the 20th century; managing in the future.	International Department The Industrial Society Robert Hyde House 48 Bryanston Square London W1H 7LN United Kingdom	11 January, 25 April and 19 September 1983 12 weeks	Professional qualification. English	-	£2,185 + VAT
Fleet management in road freight operations	The group organizes an extensive series of courses on all aspects of fleet management.	Operational Services Group (R.T.I.T.B.) Capitol House Empire Way Wembley, Middlesex United Kingdom	To be arranged 4-10 weeks	Professional qualification. English	-	To be arranged
Management	Short courses are arranged on: art of management; leadership in management; self-management; and consultancy practice.	P-E Training Services The Old Rectory Woolhampton, Reading Berkshire RG7 5TA United Kingdom	May to December 1-2 weeks	Professional qualification. English	-	To be arranged

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Management	More than 325 courses and in-company training programmes are organized in such subjects as: communications; management; supervision; sales; design; maintenance; electronics; production technology; quality.	PERA Melton Mowbray Leicestershire LE13 OPB United Kingdom	Throughout year variable	Professional qualification. English	-	To be arranged
Developing middle management cadres	The syllabus includes the management of projects, the public service, government and management, organization and behaviour, practical and advanced training techniques, personnel management, management information systems and finance.	Royal Institute of Public Administration Overseas Services Unit, Hamilton House Mabledon Place London WC1H 2BD United Kingdom	15 August 1983 12 weeks	Professional qualification. English	-	£1,600
Management and national development	The programme includes the changing requirements of public sector management, finance and management, people and management, management information and long-term plans and projects.	Royal Institute of Public Administration Overseas Services Unit, Hamilton House Mabledon Place London WC1H 2BD United Kingdom	3 October 1983 4 weeks	Professional qualification. English	-	£2,000 (including accommodation)
Organization methods and job evaluation	Basic principles of organization, method study, numerate skills, office and measurements systems and job evaluation. Practical work.	Royal Institute of Public Administration Hamilton House Mabledon Place London WC1H 9BD United Kingdom	February and August 1983 12 weeks	Professional qualification. English	-	£1,500
Management	Short courses on: general management; marketing management; works management; sales management; principles of finance; profit management; leadership in management; etc.	Sundridge Park Management Centre Bromley, Kent BR1 3TP United Kingdom	Throughout year 5 days- 3 weeks	Professional qualification. English	-	£550 - £2,025 (including accommodation)
Advanced course in production methods and management	One year post-graduate industrial training programme giving first hand experience in manufacturing/management. Takes place throughout the U.K. with specialist short courses. Each participant visits 80+ factories and undertakes 12 industrial assignments in the 48 weeks, no formal qualification awarded.	University Engineering Department Trumpington Street Cambridge United Kingdom	Approx. 1 September on year	A degree in engineering or allied numerate discipline from an approved university.	Easter prior to commencement	Tuition £4,000 and college fee £ 500 and transport £ 650 and living costs £4,500

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Development administration, public finance, training for trainers, communications, etc.	The Department organizes courses in administrative studies for overseas visiting fellows.	Department of Administrative Studies for Overseas Visiting Fellows, University of Manchester Oxford Road Manchester M13 9QS United Kingdom	January, April and September 6 weeks- 1 year	Professional qualification. English	-	To be arranged
Management	Short courses are organized during the year in: finance for non-financial managers; leadership in management; marketing in focus; production management; understanding computers; business systems analysis; managing large-scale projects; production management in construction.	Urwick Management Centre Stoke Poges Lane Slough, Berks SL1 3PF United Kingdom	Throughout year 1-10 weeks	Senior and middle level managers. English	-	£380- £2,650 + VAT and accommodation
Management	A general management course which concentrates on a limited number of key issues and stimulates participants to improve their performance on return to work. In two parts: coping with change; getting results.	Urwick Management Centre Stoke Poges Lane Slough Berks SL1 3PF United Kingdom	February, April, June, September, November 4 weeks	Middle to upper middle managers. English	-	£1,360 + VAT and accommodation
Senior management	To improve ability to understand and analyse the structure and performance of a complete business and to diagnose business problems. A unique course devoted to a participative exercise in small groups, each group forming the senior executive team of a hypothetical company.	Urwick Management Centre Stoke Poges Lane Slough Berks SL1 3PF United Kingdom	February, May and October 3 weeks	Senior managers. English	-	£1,020 + VAT and accommodation
R&D project and institute management	Project management: planning, organizing, monitoring and controlling, co-ordinating, and evaluating R&D projects Institute management: planning, organizing, monitoring and controlling, co-ordinating, and evaluating R&D organizations.	Denver Research Institute Industrial Economics and Management Division University of Denver P.O. Box 10127 Denver, Colorado 80208 United States of America	17 October 1983 and 30 July 1984 2 months	University degree. English	-	\$US 2,400

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Agribusiness management	Designed to develop managerial skill in the area of agribusiness. Primarily for people from the developing nations. The programme is objective with extensive "hands-on" activities involving field experience both domestically and internationally.	Graduate School, USDA International Programs 600 Maryland Ave. SW. Washington, D.C. 20024 United States of America	1 September 1983 8 months	Professional qualification. English	1 July	\$US 9,050
Financial management	Designed to develop managerial skill in financial management. Primarily for people from the developing nations. The programme is objective with extensive "hands-on" activities involving field experience both domestically and internationally.	Graduate School, USDA International Programs 600 Maryland Ave. SW. Washington, D.C. 20024 United States of America	1 September 1983 8 months	Professional qualification. English	1 July	\$US 9,050
Industrial management	Designed to develop managerial skill in the area of industrial management. Primarily for people from the developing nations. The programme is objective with extensive "hands-on" activities involving field experience both domestically and internationally.	Graduate School, USDA International Programs 600 Maryland Ave. SW. Washington, D.C. 20024 United States of America	1 September 1983 8 months	Professional qualification. English	1 July	\$US 9,050
Project management for local development	An intensive programme for government administrators and planners in developing nations who are responsible for the preparation, analysis, evaluation, and management of projects, for local development.	Institute of Public Service University of Connecticut 1380 Asylum Avenue Hartford, Ct. 06105 United States of America	29 April 1983 12 weeks	University degree. English	15 March 1983	\$US 5,200
Curso gerencial	Economía y marco social; empresa y medio; economía de empresa; dirección de empresa; áreas funcionales (finanzas, comercialización, producción, compras, personal); comportamiento organizativo responsabilidad social del empresario.	Centro de Estudios de la Asociación Cristiana de Dirigentes de Empresa Av. Uruguay 1835 Montevideo, Uruguay	- 8 meses	Enseñanza media completa y experiencia empresarial. Español	-	\$US 1,300

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Gerencia de empresas industriales	La economía y el mercado de las empresas industriales; el proceso de la dirección de la gerencia industrial; áreas funcionales en las empresas industriales; mercadotecnia e estratégica para empresas del sector manufacturero; financiamiento para el desarrollo de empresas industriales.	Centro de Estudios de la Asociación Cristiana de Dirigentes de Empresa Av. Uruguay 1835 Montevideo, Uruguay	- 3 meses	Jefaturas departamentales y gerentes. Español	-	\$US 700
Dirección y gestión empresarial	Administración de personal; organización y métodos; principios fundamentales de la venta profesional; supervisión industrial; planificación y control de la producción; principios fundamentales de la capacidad para dirigir.	CNTPI Sarandí 690 D 2º E., Montevideo Uruguay	Varias A discutir	Graduado universitario. Español	-	A discutir

MARKETING AND EXPORT PROMOTION
MARKETING ET PROMOTION DES EXPORTATIONS
COMERCIALIZACION Y PROMOCION DE LAS EXPORTACIONES

Trade promotion and export marketing research	Training course.	Programme for Development Co-operation of the Helsinki School of Economics (PRODEC) in co-operation with ITC, Economic Commission for Africa, Kenya External Trade Authority Lapuankatu 4 00100 Helsinki 10 Finland	24.1-11.2 Addis Ababa 14-25.2 Nairobi 28.2-4.3 Resp. home 18-23.4 Geneva 25-29.4 Target Market 2.5-3.6 Helsinki 13 weeks	Participants should be senior and middle level executives from the business community with export marketing responsibilities and export promotion officials from African countries. English	-	-
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MARKETING AND EXPORT PROMOTION (Cont'd)

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Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Développement de l'innovation (produits, activités nouvelles)	L'objectif est de former des "entrepreneurs" plutôt que des théoriciens de l'innovation (fonction de chef de produits-marketing, bureaux d'études, de chefs de projets, de créateurs d'entreprise). Thèmes développés : stratégies d'entreprise, culture industrielle et technologique, analyse de la valeur, gestion de la qualité, design, gestion transferts de technologie, gestion des projets.	Centre d'Etudes en Gestion de l'Innovation et de la Qualité Groupe Ecole Supérieure de Commerce 32 rue de la Dalbade 31068 Toulouse et Centre de Formation Continue Polytechnique Institut National Polytechnique Place des Hauts Murats 31006 Toulouse, France	Octobre 9 mois (cycle 1) ou 21 mois (cycle 2)	Diplôme de 2ème cycle de l'enseignement supérieur. Français	-	-
Commerce extérieur	Les relations économiques internationales marketing international ; droit des contrats internationaux ; transports internationaux - transit ; douane - réglementation des échanges ; procédures bancaires et financement des opérations commerciales; garanties des exportations ; implantation de filiales à l'étranger ; étude de marchés étrangers ; gestion.	Institut de Formation au Commerce Extérieur SIFOP B.P. 70 Avenue de la Gironde 59640 Dunkerque France	Février et octobre de chaque année 30 semaines	Expérience professionnelle de 3 ans. Français et connaissance de l'anglais ou de l'allemand	-	F 30,500
Import-export	Relations économiques internationales ; organisation du commerce extérieur français ; organisation de l'entreprise en import-export ; transit - transports internationaux ; douane ; contrats de vente ; gestion et facturation ; initiation à l'informatique ; financement et garantie des exportations ; correspondance internationale ; dactylo - télex ; langues.	Institut de Formation au Commerce Extérieur SIFOP B.P. 70 Avenue de la Gironde 59640 Dunkerque France	Octobre de chaque année 9 mois	Etudiants de niveau baccalauréat plus 2 ans, ayant une bonne connaissance de la langue anglaise ou allemande. Français	-	F 3,400

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Export promotion	Export product management, export organization within the enterprise sales methods in export, export market research, export publicity, export financing and pricing policies, reporting and information organization, transportation, import duties and taxes, factors controlling imports. The course programme is supplemented by excursions to major industrial, commercial and public institutions.	Carl Duisberg-Gesellschaft e.V. Hohenstaufenring 30-32 D-5000 Köln 1 Federal Republic of Germany	April and October 5 weeks	Practical experience in a responsible managerial position in export-oriented industry or commerce. English	-	To be arranged
Marketing management	Concepts/usage in the context of developing countries, marketing strategy and planning, distribution channel, pricing, techniques of market research.	Industrial Services Centre P.O. Box 1318 Balaju, Kathmandu Nepal	To be arranged 2 weeks	Professional qualification. English	-	To be arranged
Marketing and export trade development	Development of the marketing function, with special emphasis on export trade development. The training provides for a series of personalized introductions on market analysis, international trade relations, product-programme, quality assurance, marketing, pricing and costing. The programme will further include self-study of selected literature and market documentation and observations. An experienced CBO-associate will provide guidance as tutor and programme co-ordinator.	CBO - Centre for Management and Industrial Development Exchange Building Coolsingel/Meent P.O. Box 30042 3001 DA Rotterdam Netherlands	Commencement to be arranged. 8-12 weeks	University graduates in engineering, economics or business administration, preferably with experience in industry. English	-	To be arranged
International marketing and export for small and medium-sized firms	The course is oriented towards small and medium-sized firms in developing countries. Topics dealt with are: principles and basic concepts; strategic decisions in international marketing; international market research; international product decisions; international distribution decisions; international pricing decisions; international communications; organization for international market; successful exporting; case studies and visits.	International Centre for Quality and Management Sciences P.O. Box 2082 3000 CB Rotterdam Netherlands	9 May 1983 and 7 May 1984 10 weeks	Bachelor degree or equivalent and experience in a relevant field of study. English	-	f. 6,000

MARKETING AND EXPORT PROMOTION (Cont'd)

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Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Marketing management	Managerial training in marketing policy and practice; exposure to marketing conditions and action through marketing workshops; marketing tools and techniques applicable to marketing decision-making in developing countries.	Research Institute for Management Science (RVB) P.O. Box 143 2600 AC Delft Netherlands	January 5 1/2 months	Professional qualification and three years business experience in small or medium sized enterprises. English	3 months before start of course	f. 9,700
Trade promotion and export marketing research	To provide the participants with a deeper understanding of the concepts and practical applications of international marketing and trade promotion, with special reference to the United Kingdom market for selected products.	Extra-Mural Department University of Manchester Oxford Road Manchester M13 9PL United Kingdom	7 May 1983 8 weeks	Professional qualification. English	-	£2,500
Marketing management	A course of study comprising three elements: lectures, case studies focusing on specific marketing problems, and special interest seminars about problems characteristic of different areas: tourism, the arts/services, exporting, etc.	International Marketing Institute 29 Garden St. Cambridge, Mass. 02138 United States of America	20 June 1983 10 weeks	Professional qualification. English	31 May 1983	\$US 2,900 + room and board

QUALITY CONTROL AND STANDARDIZATION
 CONTROLE DE LA QUALITE ET NORMALISATION
CONTROL DE CALIDAD Y NORMALIZACION

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Normalisation	Examen de la loi de base en matière de normalisation ainsi que des règles pour l'élaboration des normes. Collaboration avec les institutions spécialisées notamment le Comité électronique belge. Visite du laboratoire qui octroie la marque CECEC. Organisation des services techniques ; création et fonctionnement des commissions ; missions des comités de secteur ; rôle des comités de coordination technique ; travaux internationaux (ISO, CEN, CENELEC, CECA) ; marque de conformité. Visite au Comité européen de normalisation ; visite des services d'exécution de l'IBN. Questions d'intérêt général : construction, feu, sécurité, éclairage, fabrications métalliques, soudure, énergie nucléaire, gaz naturel, transport, papiers et cartons. Centre d'information de l'IBN.	Institut Belge de Normalisation (I.B.N.) Avenue de la Brabançonne 29 B-1040 Bruxelles Belgique	A fixer	Niveau universitaire. Français	-	A arranger
Company standardization	Principles of standardization. National standardization systems, international and regional standardization. Organization and procedures for development of company standards department. Participation in national standardization, role of company standards in maintenance, organization of documentation and information services. Inventory control value analysis and evaluation of economic benefits.	INMETRO Instituto Nacional de Metrologia, Normalização e Qualidade Industrial SAS Quadra 2 Lotes 1/2 70.070 Brasilia D.F. Brazil	1 September 1983 2 months	Professional qualification. Spanish and Portuguese	-	To be arranged
Metrology	Principles of legal, scientific and industrial metrology. Development and application of the procedures and laws in developing countries. Co-operation and linkage with metrological centres of other developed countries. Industrial calibration services. Practical training in the laboratories of the INMETRO in the specialized fields. Introduction to precision measurements in the fields of mechanics, electricity, heat and acoustics.	INMETRO Instituto Nacional de Metrologia, Normalização e Qualidade Industrial SAS Quadra 2 Lotes 1/2 70.070 Brasilia D.F. Brazil	1 July 1983 3 months	Professional qualification. Spanish and Portuguese	-	To be arranged

QUALITY CONTROL AND STANDARDIZATION (Cont'd)

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Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Standardization and industrial quality	Essentials of standardization basic principles, methodology for preparation of national standards, implementation, organization of national standards systems. Regional and international standards activities and participation of developing countries in these activities. Essentials of principles and application of statistical quality control concepts and methods in industrial enterprises. The development of national standards in this field, application of quality certification. Procedures and their importance for national economy.	INMETRO Instituto Nacional de Metrologia, Normalização e Qualidade Industrial SAS Quadra 2 Lotes 1/2 70.070 Brasilia D.F. Brazil	3 October 1983 2 months	Professional qualification. Spanish and Portuguese	-	To be arranged
Quality control in iron foundries	Covers different stages of production of iron casting (grey, ductile, malleable), control of raw materials, control of cupola and electric melting, analysis of casting defects, non-destructive tests, collection and interpretation of quality control data, personnel requirements. Experimental programme on moulding sand testing equipment, pilot-scale melting of different types of cast iron, application of modern devices for quality control of molten metal. Training programme in three leading iron foundries.	Foundry Department Central Metallurgical Research and Development Institute National Research Centre Tahrir St. Dokki, Cairo, Egypt	April 1983 6 weeks	Professional qualification. English	February 1983	\$US 2,500
Normalisation	Cours sur : la qualité avant et après la production de série ; la qualité à la production; contrôle de réception et relations clients fournisseur ; codification ; analyse de la valeur et autres méthodes de maîtrise des coûts ; formation à l'audit qualité ; la normalisation et l'entreprise ; concepts de qualité ; la fonction qualité dans les petites et moyennes industries ; normalisation et gestion de la qualité. Ces dix cours sont indépendants les uns des autres et peuvent être suivis séparément ; détails sur demande à AFNOR.	AFNOR Association Française de Normalisation Tour Europe Cedex 7 92080 Paris La Défense France	Toute l'année 1 semaine (le cours sur la normalisation et la gestion de la qualité est de 5 semaines)	Ingénieurs et techniciens. Français	-	A fixer

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Metrology I	Introduction to precision measurement in laboratories of the PTB corresponding to the planned area of study; participation in precision measurement activities; independent measurements in the PTB and possibly licensing tests of measuring equipment at the manufacturers' premises; informational visits to metrological institutes, bureaus of standards, testing offices, etc.; participation in meetings, conferences, exhibitions; topic-oriented visits of plants as prescribed by the PTB; participation in courses for calibration inspectors or chief adjustors can be approved upon recommendation by the PTB.	Carl Duisberg-Gesellschaft and the Zentralstelle für Arbeitsvermittlung der Bundesanstalt für Arbeit in co-operation with Physikalisch-Technische Bundesanstalt (PTB) CDG P.O. Box 190 325 D-5000 Köln 1 Federal Republic of Germany	To be arranged 17 months including 1 month introduction and 4 months language training	Professional qualification and experience in metrology. German	-	To be arranged
Metrology II	Mechanics, electricity, heat, optics and acoustic covers: introduction to the techniques of precision measurement at laboratories of the PTB; participation in precision measurements of the PTB; possibly, licensing tests of measuring equipment at manufacturers' premises; informational visits to bureaus of standards, testing offices, etc.; topic-oriented visits of plants as prescribed by the PTB.	Carl Duisberg-Gesellschaft and the Zentralstelle für Arbeitsvermittlung der Bundesanstalt für Arbeit in co-operation with Physikalisch-Technische Bundesanstalt (PTB) CDG P.O. Box 190 325 D-5000 Köln 1 Federal Republic of Germany	To be arranged 17 months including 1 month introduction and 4 months language training	Technicians with experience in metrology. German	-	To be arranged
Standardization	Lectures covering different aspects of standardization. Application of the principles and methodology of standardization in the work of ISI. Attendance at meetings of ISI Technical Committees engaged in the formulation of national standards. Visits to industrial establishments, test houses, etc. for assessment of the impact of standardization and certification marking efforts on trade and industry. The Institution also is prepared to organize 4-6 weeks training courses outside India starting in June each year.	Indian Standards Institution 9 Bahadur Shah Zafar Marg New Delhi 110 002 India	15 December each year 10 weeks	Graduates in science, engineering or technology, and must have been engaged in standardization activities to be able to make practical use of the training on return. English	Mid-September	-

QUALITY CONTROL AND STANDARDIZATION (Cont'd)

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Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Standardization	This programme is aimed at training a group of engineers and scientists under home conditions and includes lectures, workshop sessions and group discussions.	Indian Standards Institution 9 Bahadur Shah Zafar Marg New Delhi 110 002 India	June, October 4-6 weeks	Professional qualification. English	February	To be arranged
Standardization	Principles of standardization; objectives of standardization; national and international standardization; standardization in industry; standardization in chemistry; standardization in building; economy and standardization and safety at work; standardization and quality control; classification and coding.	UNI Ente Nazionale Italiano di Unificazione Piazza Diaz 2 Milano 20123, Italy	Throughout year 1 week	Professional qualification. Italian	-	To be arranged
Quality control	Participants will study various fundamental QC techniques through lectures, classroom discussions and in-plant exercises and learn how to apply QC techniques in an actual production site.	The Association for Overseas Technical Scholarship, Japan 30-1, Senju Azuma 1-chome, Adachi-ku, Tokyo, Japan	July 1983 and 1984 6 weeks	Engineers and managerial staff of developing countries who supervise quality control, production control or factory management. English	5 months before the commencement of the programme	Y 550,000
Quality management	The Japanese approach for company-wide quality control through lectures, plant visits, in-plant exercises and discussions to develop suitable measures for his/her own organization to promote quality and productivity improvement.	The Association for Overseas Technical Scholarship, Japan 30-1, Senju Azuma 1-chome, Adachi-ku, Tokyo, Japan	June 1983 and 1984 3 weeks	Senior managers of developing countries who are responsible for quality and productivity in his/her organization. English	5 months before the commencement of the programme	Y 327,000

QUALITY CONTROL AND STANDARDIZATION (Cont'd)

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Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Certification and inspection systems	Summary of Japanese various certification systems; summary of JIS mark certification system; summary of export inspection system; review of basic knowledge on standardization and quality control.	JISC (Japanese Industrial Standard Committee) in co-operation with JICA (Japan International Co-operation Agency) and JSA (Japanese Standards Association) P.O. Box 216 Shinjuku Mitsui Bldg. No.1-2 chome Nishi Shinjuku Shinjuku-ku, Tokyo 160 Japan	August 1983 3 months	Professional qualification. English	-	-
Industrial standardization and quality control	Fundamentals in industrial standardization; administration of national standardization; standardization at international level; legal metrology and measurement standards; export inspection system; reference to standards; JIS marking system and other certification systems; company standardization; permeation and implementation of standards; quality control and statistical methods; reliability and quality assurance.	JISC (Japanese Industrial Standards Committee) in co-operation with JICA (Japan International Co-operation Agency) and JSA (Japanese Standards Association) P.O. Box 216 Shinjuku Mitsui Bldg. No.1-2 chome Nishi Shinjuku Shinjuku-ku, Tokyo 160, Japan	August 1983 3 months	Professional qualification. English	-	-
Standardization	Basic training workshop in standardization, certification and metrology.	A.R.S.O. P.O. Box 57363 Nairobi, Kenya	Mid 1983 and mid 1984 2 weeks	Standards officers. French (1983) English (1984)	-	To be arranged
Company standardization	Company standardization concept; national standardization; design specification control; standardization in production; maintenance and service; integrated quality control; presentation and analysis of data; some aspects of standardization; organized standardization; statistical tools in quality control and the consumer.	Kenya Bureau of Standards Oceanic Hotel Mombasa, Kenya	October 3 weeks	Professional qualification. English	-	To be arranged

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Basic quality control	Basic quality control I: basic statistics: population and sample, statistical analysis, probability; sampling: AQ.L. acceptance sampling by attributes, control charts, general quality control, quality control cost, quality assurance, standardization, certification and metrology. Basic quality control II: statistics: poisson and binomial and hypoemetric distribution, normal distribution, test on normality of population; sampling: sampling theory, sampling size, acceptance member; control charts: pre-control charts, control charts by attributes; process capabilities; analysis of dejects; total quality control; introduction to reliability; metrology; certification of industrial products.	SIRIH P.O. Box 35 Shah Alam, Selangor Malaysia	June, August 1983 To be arranged	Designed for operators, technicians, supervisors etc. involved in quality control. English	One month before the course	M\$250
Management of quality control	The course is divided into three parts: 1. theoretical; dealing with the basic concepts, quality specifications, organization, policy, planning and motivation, economics of quality, customer service, inspection and sampling, process capability, auditing, reliability and quality improvement. Statistical tools in quality control and standardization are given special attention. 2. practical; conducted in factories, offices or institutes concerned with quality control. 3. general; spent on transmission of knowledge, studying topics of special interest and visits to industrial plants.	International Centre for Quality and Management Sciences P.O. Box 2082 3000 CB Rotterdam Netherlands	3 January and 15 August 1983 2 January and 13 August 1984 4 months	Bachelor degree or equivalent and experience in quality control or a related discipline. English	-	f. 12,500
Industrial metrology	Practical training in the calibration of industrial measuring instruments covering the physical, electrical and temperature parameters. Training will involve practical work in laboratory and also field work in factories.	Industrial Metrology Service Department 179 River Valley Road Singapore 0617 Singapore	To be arranged 8 weeks	Professional qualification. English	-	To be arranged

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Standardization	Top level seminar. Organization of an NSB. Requirements, principles, scope, testing facilities, etc. Principles for management and organization. Participation of council members and other interested parties in the NSB's activities. Product standards, performance standards. Implementation of issued national standards. Voluntary or compulsory standards. Certification schemes. PR activities. In-plant standardization.	SIS - Swedish Standards Institution through its service company SIS Service AB Box 3295 S-103 66 Stockholm Sweden	To be arranged	NSB council members and top level executives in NSB and in ministries and industries. English	-	To be arranged
Organization of standards work	Programme extends the experience and develops the competence of personnel from the newer standards organizations. It places the whole process of standardization in its context within the constitution and industrial establishment of a country. The course does not offer specialized training in any particular subject like quality assurance, metrology, food or textiles, although all these subjects are covered.	British Standards Institution (BSI) 80 Park Lane London W1A 2BS United Kingdom	July 1983 6 weeks	University graduates working at a national standards organization. English	Application is advised before 30 April 1983	£750
Metrology	Measurement of length, mass, volume and flow.	National Weights and Measures Laboratory 26 Chapter Street London SW1P 4NS United Kingdom	May each year 4-5 weeks	Professional qualification. English	-	£1,000
Non-destructive testing methods	To provide comprehensive coverage of industrial radiography, surface inspection methods and ultrasonic testing. In addition, manufacturing and joining processes, such as casting, forgings and welding will be treated. It is intended that the radiography part of the course will give a coverage similar to that of the Kodak course.	Scottish School of Non-Destructive Testing Paisley College High Street Paisley PA1 2BE Scotland United Kingdom	Mid-September 1983 and 1984 12 weeks	Professional qualification. English	-	£800

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Quality assurance	This short course is designed to provide engineers, technologists and management with an up-to-date appraisal of quality assurance and covers: economic, communication and planning elements of QA; statistical concepts, quality control charts, QA and the consumer. QA test procedures prior to, during and after manufacture; specification interpretation; training and certification of QA personnel; reliability case studies, the QA manual product liability.	Scottish School of Non-Destructive Testing Paisley College High Street Paisley PA1 2BE Scotland United Kingdom	To be arranged	Professional qualification. English	-	£60 - £120
Quality engineering	The primary purpose of this course is to equip the student for a career in quality engineering and considers the technical and management factors involved in prescribing realistic quality programmes, quality systems and quality levels and the assurance of product quality; the principles and practice of non-destructive testing methods; those aspects of electronics and instrumentation which are relevant to quality engineering with NDT.	Scottish School of Non-Destructive Testing Paisley College High Street Paisley PA1 2BE Scotland United Kingdom	Late September 1983 and 1984 6 months	Degree science or engineering. English	-	To be arranged
Non-destructive testing	Ultrasonic, radiographic, penetrant and magnetic particle testing. Methods and welding inspection.	The Unit Inspection Co. Ltd Sketty Hall Sketty Park Road Swansea SA2 8QE S. Wales, United Kingdom	March and September To be arranged	Professional qualification. English	-	£160 per week

SMALL-SCALE INDUSTRIES AND ENTREPRENEURSHIP
 PETITES INDUSTRIES ET ENTREPRENEURS
 PEQUEÑAS INDUSTRIAS Y LOS EMPRESARIOS

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Technology management of small- and medium-scaled industrial enterprises in developing countries	Modernisation of existing production processes; revamping organization of production engineering in existing enterprises; applying appropriate process and product innovations; solving intercultural communications problems arising through the manufacturing process; development, fabrication and marketing of appropriate products for new markets in developing countries; quality control assurance and improvement; founding of and consulting for joint ventures in developing countries.	Centre for Technological Cooperation Technical University of Berlin Strasse des 17. Juni 135 D-1000 Berlin (West) 12	1 November 12 months	University degree. (Candidates must come from developing country and be prepared to work in developing country.) German and English	-	-
Entrepreneurial motivation development	Understand the motivational aspects of entrepreneurial development; obtain knowledge of factors of entrepreneurial development; acquire knowledge and competence in identifying enterprises and potential entrepreneurs; guide and train potential entrepreneurs; enable them to become effective promoters and trainers in entrepreneurial development.	Small Industry Extension Training (SIET) Institute Yousufguda Hyderabad 500 045 India	To be arranged 8 weeks	Professional qualification. English	-	\$US 2,330
Small industry financing	Understand the policies and programmes in India for financing small industry; improve their skills in scrutinising and appraising applications for loans; and develop suitable systems for proper utilization of funds by the borrower and ensure prompt recovery.	Small Industry Extension Training (SIET) Institute Yousufguda Hyderabad 500 045 India	To be decided 8 weeks	Personnel engaged in promoting/ financing small industries. English	-	\$US 2,330

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Small industry management consultancy	Refresh their knowledge in the function areas of industrial management; sharpen their skills of analytical techniques in providing integrated counselling services to identify the real problems and evaluate alternative solutions; acquire the skills to practice management consultancy for performing general business diagnosis and diagnosis of the problems in the functional areas in a small industry; contribute to the development of industrial management consultancy services in their countries.	Small Industry Extension Training (SIET) Institute Yousufguda Hyderabad 500 045 India	To be decided 12 weeks	University degree. English	-	\$US 3,250
Small industry promotion in developing economies	Develop the required analytical skill for identifying industrial opportunities and in making project analysis; share the Indian experience in the field of small industry development and promotion, and in other sub-areas of decentralized sector; and impart promotional techniques for the accelerated development of small industries.	Small Industry Extension Training (SIET) Institute Yousufguda Hyderabad 500 045 India	To be decided 12 weeks	Personnel engaged in promotion of industries. English	-	\$US 3,250
Small-scale industries	The Institute organizes courses on: small industry management consultancy; training methods and skills; planning and promotion of agro-industries; small industry financing; techno-managerial programme for biscuit and bakery industry; information storage and retrieval systems.	Small Industry Extension Training (SIET) Institute Yousufguda Hyderabad 500 045 India	Throughout year variable	Professional qualification. English	-	To be arranged
Small industry and entrepreneur development	The course will equip participants to plan and implement a development programme for a country's small industries.	Industrial Development Authority Lansdowne House Ballsbridge Dublin 4, Ireland	11 July 1983 8 weeks	Professional qualification. English	-	IR£4,000
Promotion of crafts and small scale industries in rural areas	Design; production; administration; types of business organization; marketing; human relations; community development.	Mount Carmel International Training Centre for Community Development (MCTC) 12 David Pinsky St. Haifa 31060, Israel	February 1983 12 weeks	Professional qualification. English	-	\$US 900 per month (covering studies, board, lodging and pocket money)

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Small scale industries	Woman in economic development; planning; working with groups; co-operation; training; production; marketing; administration and management.	Mount Carmel International Training Centre for Community Development (MCTC) 12 David Pinsky St. Haifa 31060, Israel	3 January 1983 3 months (will be repeated in 1984)	Professional qualification. The course is open to women and men between the ages of 25-40. English	-	\$US 1,000
Small enterprise development	Development of small enterprises in industrialized and developing countries; policies, strategies and means of promotion; organisational development and institutional framework; training resources and programmes; loans and credits: the role of banks in small enterprise development; the role of workers' and employers' associations, governments and chambers of commerce; market research and export promotion; technological alternatives for the development of small enterprises, etc. Includes study tour.	ILO International Centre for Advanced Technical and Vocational Training 201 Via Ventimiglia 10127 Turin, Italy	18 April 1983 5 weeks	Professional qualification. English, French	-	To be arranged
Industrial estates and complexes	Management and planning aspects of industrial estate and complex development. The training programme provides for a series of personalized introductions on development planning of industry and infrastructure, physical planning, location aspects, environmental planning, investment and costs, lay-out development, optimization. The programme will include further self-study of selected literature and field-observations. An experienced CBO-associate will provide guidance as tutor and programme-co-ordinator.	CBO - Centre for Management and Industrial Development Exchange Building Coolsingel/Meent Postbox 30042 3001 DA Rotterdam Netherlands	Commencement to be arranged 8-12 weeks	University graduates in engineering, economics or business administration, preferably with experience in industry. English	-	To be arranged
Industrial extension officers training	To expand the capability of industrial extension officers to assist small-and medium-sized industries in solving their internal and external problems.	Research Institute for Management Science (RVB) P.O. Box 143 2600 AC Delft Netherlands	January 5 1/2 months	Professional qualification and business experience. English	3 months before start of course	f. 9,700

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Management consultancy	To enable participants to provide management consultancy services and technical assistance to small and medium industries; includes an overview of business management and organization, the tools of management consultancy, practical exercises and fieldwork activities on consultancy practice.	University of the Philippines - Institute for Small-Scale Industries (UP-ISSI) Quezon City Philippines	July 1983 20 weeks	University degree. English	3 months before course starts	\$US 1,400
Small enterprise development	The Cranfield programme on the promotion of small-scale enterprises in developing countries is aimed at staff of government departments, development and commercial banks, official and voluntary enterprise promotion agencies and academic institutions who are concerned with the promotion of local enterprise. Its objective is to enable them to perform more effectively through an exchange of ideas with colleagues from other countries and exposure to the wide variety of techniques that are now available for promoting the establishment of new businesses and assisting those which already exist.	Enterprise Development Centre Cranfield School of Management Cranfield, Bedford Beds MK43 0AL United Kingdom	12 September 1983 and 11 September 1984 2 months	At least one year's practical experience in promoting small enterprise. English	-	£3,500.. £3,800
Executive development (small business)	This programme covers: organization; financial accounting; management accounting; marketing; management of the production or service function; personnel management; personal tutorial on specific project nominated by participant. (Optional 2 weeks extra.)	The Small Business Centre University of Aston 200 Aston Brook St. Birmingham B6 4SY United Kingdom	January and May 1983 and 1984 10 weeks	Professional qualification. English	-	£1,500 (2 week option £500)

TRAINER DEVELOPMENT
PERFECTIONNEMENT DU PERSONNEL ENSEIGNANT
DESARROLLO DE PROFESIONALES DE CAPACITACION

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Training methods and skills	To understand and gain insight into the dynamics of training/learning process; develop skills in the choice and use of training methods; develop competence in planning a curriculum; develop personal and role effectiveness as a trainer.	Small Industry Extension Training Institute Yousufguda Hyderabad 500 045 India	To be decided 8 weeks	Personnel engaged in training. English	-	\$US 2,330
Industrial development - The role of manpower planning and industrial training	The course will equip participants to plan their future manpower requirements and implement a systematic industrial training programme both at national and company levels.	Industrial Development Authority Lansdowne House Ballsbridge Dublin 4, Ireland	20 June 1983 8 weeks	Professional qualification. English	-	IR£4,000
Designing and developing training material	To enhance the understanding of trainers of training methodology and to strengthen capability to design and develop training needs through study of attitudes to change; factors affecting motivation; the preparation and use of training aids and a training package; action learning and project based training.	Institute of Public Administration 57-61 Lansdowne Road Ballsbridge Dublin 4, Ireland	October 1983 10 weeks	At least 2 years practical working experience of the training function. English	31 May 1983	To be arranged
Training/instructional techniques	The need for a comprehensive staff development programme; the identification of training needs and the design of programmes to meet these needs; the learning process in adults; developing skills in using training and instructional techniques; evaluation of training.	Institute of Public Administration 57-61 Lansdowne Road Ballsbridge Dublin 4, Ireland	August 1983 10 weeks	Professional qualification. English	30 April 1983	To be arranged
Design of trainability assessment tests	Trainability testing is a job-specific approach which tests the ability of the trainee to acquire the skills necessary to perform a job. It has had very highly predictive results in relation to the following work types: skilled and unskilled manual; inspection; driving; diagnostic skills; process operation.	Instructor Training Service AnCO - The Industrial Training Authority Upper Baggot Str. Dublin, Ireland	To be arranged 1 week and project	Professional qualification. English	-	£350 approx.

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Audio-visual aids technology	Communication, non-projected visual aids, the overhead projection system, projected aids in training, the use of films in training, television in training, the sound/slide package, selection of audio-visual media, technical and pedagogical evaluation, organization of an audio-visual resource centre, etc. Includes study tour.	ILO International Centre for Advanced Technical and Vocational Training 201 Via Ventimiglia 10127 Turin, Italy	28 March and 3 October 1983 6 weeks	Professional qualification. English, French, Arabic or Spanish	-	To be arranged
Curriculum development	The modules of the course include: analysis of training needs, design of specific curriculum, programme development, financial aspects of curriculum implementation, curriculum evaluation, etc. Participants will adapt each module to situations prevailing in their different professional situations. Includes study tour.	ILO International Centre for Advanced Technical and Vocational Training 201 Via Ventimiglia 10127 Turin, Italy	9 May and 14 November 1983 5 weeks	Professional qualification. English, French, Arabic or Spanish	-	To be arranged
Production of low-cost training material	Methodology: the open curriculum, demonstration methods, puppet plays and street theatre; design and production: posters, silk screening, flannel, magnetic, roller and bulletin boards, flash cards, etc.; motivation and research: participatory training systems, library techniques, socio-economic and cultural influences. Includes study tour.	ILO International Centre for Advanced Technical and Vocational Training 201 Via Ventimiglia 10127 Turin, Italy	11 May 1983 6 weeks	Professional qualification. English or French	-	To be arranged
Training methodology	The systems approach, educational technology, definition of training needs and objectives, choice of evaluation methods, structuring of subject matter, planning a learning sequence, training and learning methods, selection of resources, etc. Includes study tour.	ILO International Centre for Advanced Technical and Vocational Training 201 Via Ventimiglia 10127 Turin, Italy	21 February and 29 August 1983 5 weeks	Professional qualification. English, French, Arabic or Spanish	-	To be arranged

TRAINER DEVELOPMENT (Cont'd)

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Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Training of trainers of energy management and energy saving	Intended for professors and heads of training departments in enterprises who will be developing specific programmes in energy management and energy saving, this course will familiarise participants with the technical and economic aspects of this field, upgrade their knowledge of related training methodology and develop adapted curricula for such programmes.	ILO International Centre for Advanced Technical and Vocational Training 201 Via Ventimiglia 10127 Turin, Italy	19 September 1983 12 weeks	Professional qualification. English	-	To be arranged
Trainer development	Management of the training function and its resources, the identification of training needs and job analysis, training design and validation.	British Association for Commercial and Industrial Education (BACIE) 16 Park Crescent London W1N 4AP United Kingdom	23 January 1983 6 weeks 31 July 1983 12 weeks	Degree or equivalent qualification. English	-	To be arranged
Training: its design and management	Develop staff training; apply the principles of training to the training requirement in the participants organization; make skilled analysis of training needs; devise and implement training programmes; run training sessions; evaluate and assess staff training.	Crown Agents Training Services 4 Millbank London SW1P 3JD United Kingdom	January, April, July and September 1983 9 weeks	Professional qualification. English	-	£3,600
Training officer	This course is for newly appointed training officers or those who require to up-date or develop their skills and knowledge in training. Its objective is to enable course members to carry out their company's training function for all operative, clerical, technical supervisory and management categories.	Fielden House Productivity Centre Limited The Shirley Campus 855 Wilmslow Road Didsbury Manchester M20 8RY United Kingdom	Throughout year 10 weeks	Professional qualification. English	-	£795 + VAT

TRAINER DEVELOPMENT (Cont'd)

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Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Instructor training	To enable participants to design training programmes on the basis of job descriptions and job specifications; write training course objectives in behavioural terms, and validate such courses; give lectures and lessons and conduct group discussions; produce and use case studies from their own organizations; produce and use role play scripts on the basis of their own experience; use in-tray and other business exercises effectively; design and produce a range of training materials and visual aids, counsel management and supervisory staff and obtain their commitment to following up formal instruction.	International Department The Industrial Society Robert Hyde House 48 Bryanston Square London W1H 7LN United Kingdom	23 May 1983 8 weeks	Professional qualification. English	-	£1,400 + VAT
Training officers	To identify and distinguish between the main techniques and methods available for training of people at all levels in the organization and demonstrate the ability to select the appropriate technique to achieve the training objective. To teach analysis of training needs and ability to advise management on formulation of training policy and organise the implementation of training and development programmes to agreed standards.	International Department, The Industrial Society Robert Hyde House 48 Bryanston Square London W1H 7LN United Kingdom	7 February and 19 September 1983 12 weeks	Professional qualification. English	-	£2,185 + VAT
Management of training	The course will provide an opportunity to study management and financial problems involved in running a training centre: the systems approach to training; psychology of learning and motivation; the use of advance training techniques; the role of training in personnel management to ensure an organization development approach; and the evaluation of training.	Royal Institute of Public Administration Overseas Services Unit, Hamilton House Mabledon Place London WC1H 2BD United Kingdom	8 August 1983 12 weeks	Professional qualification. English	-	£1,850
Training techniques	The course covers administrative aspects of training, human relations, the various training techniques, attachments and visits.	Royal Institute of Public Administration Overseas Services Unit, Hamilton House Mabledon Place London WC1H 2BD United Kingdom	24 January and 23 May 1983 12 weeks	Professional qualification. English	-	£1,650

TRAINER DEVELOPMENT (Cont'd)

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Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Trainer development	The programme provides an opportunity to study the western scene in management education so that participants can convert to their own uses back home those features likely to be relevant. The course is run on workshop lines with project work, teaching practices, and exercises in course design.	School of Management Studies Polytechnic of Central London 35 Marylebone Road London NW1 5LS United Kingdom	September 12 weeks	Degree and/or professional qualification. English	-	£1,400
Training and education for national development	The systems approach; fundamentals of management; management by objectives; principles of learning; instructional systems design; performance improvement planning; project management; communications; transactional analysis; experiential learning; training programme evaluation.	Institute of Public Service University of Connecticut 1380 Asylum Avenue Hartford, CT. 06105 United States of America	29 April 1983 12 weeks	University degree. English	20 March 1983	\$US 5,200
Development of local and international training centres for nationals	Emphasis on current principles, practices and techniques of successful international business management.	Ultramar Research & Development Corp. "Northwood Program" P.O. Box 402 New York, N.Y. 10101 United States of America	Throughout year 6 months	Professional qualification. English	-	To be arranged

CHAPTER 3: OTHER TRAINING OPPORTUNITIES AND SHORT COURSES
 CHAPITRE 3 : AUTRES POSSIBILITES DE FORMATION ET SESSIONS D'ETUDE DE BREVE DUREE
 CAPITULO 3: OTRAS OPORTUNIDADES DE CAPACITACION Y CURSOS CORTOS

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Management	Residential courses in wide range of management subjects.	Institute of Management, University of New South Wales Sydney, Australia	Throughout most of year 2-5 days	Professional education. English	-	\$A 180-550
Tecnología industrial	Cursos sobre: aceites vegetales; formulación de pinturas; combustión y quemadores; espectrometría en la región de rayos infrarrojos, ultravioletas y visibles; espectrofotometría por absorción atómica; planeamiento y organización sobre el mantenimiento industrial; tecnología sobre concreto (hormigón armado); microbiología aplicada a la industria; metodología y técnicas de laboratorio aplicadas a la biotecnología; genética de los microorganismos; tecnología química sobre la transformación del almidón para fines industriales y alimenticios; cromatografía en fase gaseosa; higiene industrial aplicada a la industria alimenticia; análisis y control estadístico de calidad; sistema PERT aplicado a la dirección de proyectos; torneado y trabajos mecánicos de metales y otros temas a fines.	Instituto Nacional de Tecnología Avenida Venezuela 82 Rio de Janeiro Brasil	En el transcurso del año 3 días- 4 semanas	Calificación profesional. Portugués	-	A determinar
Análisis de fertilizantes	Formación a través de aulas teóricas y prácticas para técnicos de nivel medio en las técnicas de análisis de fertilizantes.	IPT/CEFER Sao Paulo, Brasil	11 abril 1983 5 días	Calificación profesional. Portugués	-	\$US 210
Management	Management ; méthodes de gestion et techniques administratives ; efficacité et management ; gestion de personnel ; gestion financière et contrôle de gestion ; action commerciale - marketing ; commerce international ; achat - approvisionnement ; techniques d'organisation ; gestion de la production ; techniques documentaires.	Centre d'Enseignement du Management (CNOF) 3, rue Cassette 75006 Paris France	Toute l'année 2-84 jours	Qualification professionnelle. Français	-	A arranger
Formation professionnelle et technique	Distribution et écoulement des fluides dans les réseaux ; soudage ; métallurgie et traitements thermiques ; transmissions mécaniques ; industries mécaniques transformatrices des métaux et connexes; maintenance des installations de conditionnement d'air-climatisation ; formation de formateurs.	MECAFORM 98, bd V. Hugo 92115 Clichy France	Octobre 8 semaines- 11 mois	Ingénieurs. Français	-	A convenir

OTHER TRAINING OPPORTUNITIES AND SHORT COURSES (Cont'd)

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Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Basic means of company standardization (Course I)	Principles and organization of standardization; international standardization; standardization science; standardization techniques; company standardization, organization, tasks and function; standardization and electrical data processing; microfilm of technical documents; organizing systems.	DIN Deutsches Institut für Normung e.V. Burggrafenstr. 4-10 D-1000 Berlin (West) 30 (various cities in the Federal Republic of Germany)	February, March, September and October 5 days	Professional qualification. German	-	DM 1,045
Aspects and systems of standardization work (Course II)	Standardization aspects; tendencies of national and international standardization; legal aspects in relation to standardization; law on technical equipment; maintenance network planning; economy in company standardization; value analysis; applied methodologies for standardization; computer aided design; computer aided manufacturing.	DIN Deutsches Institut für Normung e.V. Burggrafenstr. 4-10 D-1000 Berlin (West) 30 (various cities in the Federal Republic of Germany)	February, March, September and October 5 days	Professional qualification. German	-	DM 1,045
Management knowledge in company standardization (Course III)	Co-operation and management in the modern society; how to run a department; conference and discussion techniques; managerial hierarchy within a company; industrial economics and administration; company management; standardization and labour legislation.	DIN Deutsches Institut für Normung e.V. Burggrafenstr. 4-10 D-1000 Berlin (West) 30 (various cities in the Federal Republic of Germany)	March and October 4 days	Professional qualification. German	-	DM 1,625
Maintenance and standardization	Organization of standardization and maintenance; maintenance working documents; planning and control of maintenance; co-ordination; design aspects on standardization and maintenance; budgeting; insurance; legal aspects in relation to standardization and maintenance; planning and control of spare parts.	DIN Deutsches Institut für Normung e.V. Burggrafenstr. 4-10 D-1000 Berlin (West) 30 (various cities in the Federal Republic of Germany)	March and October 3 days	Professional qualification. German	-	DM 910
World industrial census (workshop on)	Preparatory workshop for the 1983 industrial census covering all items of importance for a smooth implementation of the census.	Munich Centre for Advanced Training Pfälzer-Wald Str. 2 D-8000 Munich 90 Federal Republic of Germany	1st quarter 1983	Responsible as a statistician for organizing the census. French	15 January 1983	To be arranged

OTHER TRAINING OPPORTUNITIES AND SHORT COURSES (Cont'd)

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Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Management	Short courses organized throughout the year on general management; EDP, finance; marketing; personnel; production; small business; insurance; supply management.	The Hong Kong Management Association Management House 26 Canal Road West Hong Kong	3-4 times a year 1-5 days	Manager, executive supervisor. English, Chinese	-	To be arranged
Management	Supervisory management training, basic management skills, management development series for specialists, and management training skills.	The Hong Kong Management Association Management House 26 Canal Road West Hong Kong	3-4 times a year 1-5 days	Manager, executive supervisor. English, Chinese	-	To be arranged
Management seminars (by experts from overseas)	These seminars provide an opportunity for top executives to keep abreast with the latest management techniques and thinking being developed elsewhere in the world.	The Hong Kong Management Association Management House 26 Canal Road West Hong Kong	2-3 times a year 1-5 days	Top management. English	-	Approx. HK\$1,000 per day
Management studies	Completion of six basic modules and an additional six modules of a particular orientation at the choice of the participants, e.g. personnel, finance, production and marketing.	The Hong Kong Management Association Management House 26 Canal Road West Hong Kong	February and September annually 1-5 days	Executives whose minimum age is 27, must be in employment. English, Chinese	-	HK\$500 per module (12 modules in total)
Industrial technology	Short courses on: low-cost automation; building and construction; introduction to the use of microcomputers; textiles and garments; product finishing; working of metals and heat treatment; plastics; environmental engineering and waste treatment; energy conservation.	The Hong Kong Productivity Centre Sincere Building 173 Des Voeux Road Central Hong Kong	To be arranged	Technical personnel. English, Chinese	-	To be arranged
Management	Courses on: project management; management information systems; finance for non-finance executives; behavioural laboratory for managerial effectiveness; financial controlling and reporting system; budget planning and control; total marketing approach; maintenance management; production management; working capital management; personnel management.	Centre for Management Development Trivandrum 695005 India	Throughout year 5 days	Professional qualification. English	-	Rs 3,000 (residential)

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Industrial training	Short courses are arranged on: production management; systematic plant maintenance; organization of techniques of training; production planning and control; project management; quality control; management information systems.	National Institute for Training in Industrial Engineering Vihar Lake Bombay 400 087 India	Throughout year 2 weeks	Professional qualification. English	-	\$US 5.00
Industrial training	In-plant training in production and technology of: fertilizers; cement; pulp and paper; viscose rayon; cellulose; handloom weaving; ceramic building materials; refractories; fine ceramics; earthen ware; lime; glass; leather tanning; leather goods; shoe manufacture; engineering drawing; maintenance welding; arc welding; gas tungsten arc welding; production management; batik; furniture.	Ministry of Industry Djakarta, Indonesia	To be arranged	Professional qualification. English or Bahasa Indonesia	-	To be arranged
Applied solar energy	Basic physical principles of solar radiation; technical concepts of solar energy applications; heat conversion system-active and passive; mechanical and electrical conversion systems; residence applications; industrial applications; economic analysis of systems; storage systems; thermodynamic utilization cycles.	CISM - International Centre for Mechanical Sciences Piazza Garibaldi 18 Udine, Italy	1984 (period not yet fixed) 1 week	Professional qualification. English	-	To be arranged
Industrial training	The Asian Productivity Organization organizes (or is prepared to organize) seminars and training courses in the following subjects: technology development and transfer mechanism; productive maintenance; systematic problem solving; corporate planning; supervisory development; quality control; agro-industry management; energy management; production management; tools for managerial decision-making; small industries development; project management; productivity measurement and analysis; institutional and expert management consultancy; computer applications in manufacture; project feasibility; environmental engineering; tool engineering; export marketing; training techniques; senior management consultancy; packaging engineering; product design; construction management. (Details of above seminars and training courses supplied by A.P.O.)	Asian Productivity Organization 4-14 Akasaka 8-chome Minato-ku Tokyo, Japan (in Japan and other countries of Asia)	To be arranged in 1983 and 1984 1-12 weeks	Professional qualification; membership in productivity or similar organization of APO member country. English	3 months before commencement	To be arranged

OTHER TRAINING OPPORTUNITIES AND SHORT COURSES (Cont'd)

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Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Applied scientific research	Short courses covering: metal-working; foundry technology; welding, brazing and cutting processes; food microbiology and hygiene; technology and analysis of edible oils and fats; leather technology; leather quality control; research training in plastics processing and quality control; geophysical well logging; groundwater geophysics and geohydrological methods.	Netherlands Organization for Applied Scientific Research (TNO), Bureau for International Projects Pr. Beatrixlaan 7 Postbus 778 2501 CT The Hague Netherlands	Throughout year To be arranged	Professional qualification. English	-	To be arranged
Metalworking	Short courses covering the following metalworking subjects (middle management level): sheet metal forming operations: bending, punching and blanking (including machine tools); computerized numerical control (CNC): operating CNC-lathes; sheet metal forming operations: deep-drawing (including machine tools); machine tools: accuracy testing, maintenance, inspection; MITURN: computerized programming system for (C)NC lathes; metal cutting technology for turning operations; metal cutting technology for sawing and milling operations; metal cutting technology for drilling and boring operations.	Netherlands Organization for Applied Scientific Research (TNO), Metal Research Institute P.O. Box 541 7300 AM Apeldoorn Netherlands	Throughout year 3-8 days	Professional qualification. English	-	To be arranged
Management	Short courses on: general, financial, production, marketing, and personnel management; supervisory training; miscellaneous.	Pakistan Institute of Management Shahrah Iran, Clifton Karachi-6, Pakistan (Karachi and Lahore)	Twice every year 1-2 weeks	Professional qualification and senior business executive experience. English	-	PRs 900 - 1,500
Quality control	Courses on quality control.	APQI c/o Director Bureau of International Affairs Ministry of Foreign Affairs Lago de Rilvas Lisbon, Portugal	Throughout year 2-8 days	Professional qualification. Portuguese	-	To be arranged

OTHER TRAINING OPPORTUNITIES AND SHORT COURSES (Cont'd)

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Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Industrial technology and energy	Short courses on: food processing industries; wood processing and wood products; glass and ceramics; electronics; mechanical and metalworking; basic training in ocular optics; industrial metrology; materials protection against corrosion; energy saving in industry.	Centro de Formação Técnica do Laboratório Nacional de Engenharia e Tecnologia Industrial Ministério da Indústria, Energia e Exportação Rua Filipe Folgque 2 6ºDtº Lisboa, Portugal	Throughout year 2-25 days	Professional qualification. Portuguese (occasionally: English, French, Spanish)	-	\$US 100- \$US 500
Industrial engineering	Partex organizes some 24 courses on many aspects of industrial engineering.	Partex Companhia Portuguesa de Serviços Av. Berna 56 1093 Lisboa Codex Portugal	Throughout 1983 and 1984 5 days	Professional qualification. English, French, Portuguese	-	To be arranged
Production engineering	Courses arranged on topics of current interest.	Institute of Engineers Colombo, Sri Lanka	To be arranged	Professional qualification. English	-	To be arranged
Normalisation	Signification et objectifs de la normalisation ; normalisation nationale et internationale, organismes de normalisation ; la normalisation dans l'entreprise ; méthodologie et technique de normalisation ; science et pratique du dessin ; numérotation, classification et traitement des données ; établissement des nomenclatures, principes de base, exemples d'application ; aperçu sur les normes nationales.	Association Suisse de Normalisation Secteur "Industrie des Machines, des Métaux et des Plastiques" Kirchenweg 4 CH-8032 Zurich Suisse	Automne 1983 et 1984 3 jours	Formation technique ou technico-commerciale de degré moyen. Français	-	A convenir
Industrial property	In most cases, WIPO training courses/seminars, etc. include a short stay at the headquarters of WIPO in Geneva, preferably at a time when the trainees may, while receiving information on the Organization itself, take part in one of its meetings.	WIPO 34, chemin des Colombettes 1211 Geneva 20 Switzerland	Throughout year 2 days - 2 weeks	* English, French and Spanish	-	-

OTHER TRAINING OPPORTUNITIES AND SHORT COURSES (Cont'd)

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Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Industrial property (trademarks)	Organized lectures, discussions and exercises, practical training at the Benelux Trademark Office.	WIPO, 34, chemin des Colombettes 1211 Geneva 20 Switzerland in co-operation with the Benelux Trademark Office in the Hague (The Hague, Netherlands)	November 10 days	* English	-	-
Gestion	Il s'agit d'une centaine de séminaires d'une durée de 2 à 8 jours et comportant des thèmes techniques et fonctionnels et s'adressant aux diverses catégories socio-professionnelles.	OTTEFP Rades, Tunisie	Février à décembre 1983 2-3 jours	Qualifications professionnelles. Français	-	-
Information workshops	One day, highly participative workshops for trainers and managers on such subjects as: new technology; job evaluation; participation; psychological testing.	British Association for Commercial and Industrial Education (BACIE) 16 Park Crescent London W1N 4AP United Kingdom	Throughout year 1 day	Professional qualification. English	-	£100 per day
Instructor, trainer and management development	Short courses on: identification of training needs; job analysis; training design; training evaluation; instructor development; etc.	British Association for Commercial and Industrial Education (BACIE) 16 Park Crescent London W1N 4AP United Kingdom	Throughout year 2-5 days	Professional qualification. English	-	To be arranged
New technology in business	A series of 4 one day highly participative small group workshops: micros and your business, how to use it; controlling your business; managing your information; human aspects of new technology.	British Association for Commercial and Industrial Education (BACIE) 16 Park Crescent London W1N 4AP United Kingdom	Throughout year 1 day	Professional qualification. English	-	£109,25 per day

*Candidatures must be submitted through the official government authorities to the Director General of WIPO. Applicants must be government officials, preferably employed by a government office in charge of the administration of patent and trademark laws of the country (national industrial property or patent offices, or the like) or agencies in the science and technology sector or from institutions engaged in research and development or industrial and agricultural development.

OTHER TRAINING OPPORTUNITIES AND SHORT COURSES (Cont'd)

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Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Control of insects and rot in buildings	Covers the subjects of: wood anatomy; drying; mycology; entomology; preservation; health and safety measures.	Building Research Establishment Princes Risborough Laboratory Princes Risborough Aylesbury Buckinghamshire HP17 9PX United Kingdom	4 courses each year 3 days	Professional qualification. English	-	£75 + VAT
Personal career development	Management skills; transfer of employment; jobjolt; new venture.	Career Studies Unit University of Manchester Manchester M13 9PL United Kingdom	Throughout year To be arranged	Professional qualification. English	-	To be arranged
Furniture technology and production management	Short courses on: upholstery fabrics; foams; frame design; cabinet furniture adhesives; finishing; board materials; plastics; dimensional control; packaging; marketing and sales planning; safety and noise control; costing for profitability; general management problems; productivity improvement techniques.	Furniture Industry Research Association Maxwell Road Stevenage, Herts. United Kingdom	Through 1983/84 1-10 days	Senior managers and furniture management experience. English	-	£180- £600
Quality assurance and related subjects	Regular and comprehensive programme of short courses on all subjects relating to quality assurance. They include statistical quality control, metrology, quality costing, reliability engineering, quality in design, the quality of software, test and inspection, and overall quality management.	The Institute of Quality Assurance 54 Princes Gate Exhibition Road London SW7 2PG United Kingdom	February-June and September- November 2-5 days	Professional qualification. English	-	£70- £90
Co-operatives	Training institutes in several countries provide courses in co-operative studies. Details and advice concerning appropriate courses may be obtained from ICA.	International Co-operative Alliance 11 Upper Grosvenor Street London W1X 9PA United Kingdom	To be arranged	Professional qualification. -	-	To be arranged

OTHER TRAINING OPPORTUNITIES AND SHORT COURSES (Cont'd)

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Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Microprocessors in agriculture	This is an introductory course intended to provide practical knowledge and experience of this rapidly developing technology which can contribute to product innovation in the agricultural engineering manufacturing industry.	National College of Agricultural Engineering Silsoe Bedford MK45 4DT United Kingdom	To be arranged 3 days	Professional qualification. English	-	To be arranged
Practical marketing research	The aim of the course is to provide participants with a thorough understanding of the fundamental skills of the market analyst. The emphasis of the programme is upon the practical. Formal lecture time is kept to a minimum and active participation in the workshop constitutes the greater part of the programme.	National College of Agricultural Engineering Silsoe Bedford MK45 4DT United Kingdom	To be arranged 3 days	Professional qualification. English	-	To be arranged
Materials handling	Short courses on: physical distribution management; organization and control of road transport; warehouse management; warehouse layout and methods; control of physical distribution; unit load handling in manufacture; parts storage system design; first line supervision in physical distribution; reducing fork truck costs; modern warehouse design; redesigning order picking system.	National Materials Handling Centre Cranfield Institute of Technology Cranfield Bedford MK43 OAL United Kingdom	Throughout year 2-4 1/2 days	Professional qualification. English	-	To be arranged
Industrial production	Short courses on: design and production technology; quality in manufacture; electronics; mechanical production and management; planned maintenance; production and plant maintenance; electronic control systems maintenance; industrial and general management; automation and robotics; electronics and computers.	PERA Training Melton Mowbray Leicestershire LE13 OPB United Kingdom	Regularly throughout year 3-5 days	Professional qualification. English	-	£200- £350
Packaging	Maintenance of packaging machines for the bakery, biscuit and confectionery industries.	Rose Forgrove Ltd Coal Road, Seacroft Leeds LS14 2AN United Kingdom	To be arranged 2-4 days	Professional qualification. English	-	£42 per day

Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Industrial pneumatic system	The course has been developed for engineers, designers, training officers and users of pneumatic equipment. There will be a "down to earth" approach rather than a theoretical one.	Sheffield City Polytechnic Automation Advisory Service Pond Street Sheffield, South Yorkshire S1 1WB United Kingdom	7 November 1983 and 5 November 1984 1 week	Professional qualification. English	-	To be arranged
Power hydraulic systems	This course has been developed for engineers, designers, and users of oil hydraulic systems. There will be a "down to earth" approach rather than a theoretical one.	Sheffield City Polytechnic Automation Advisory Service Pond Street Sheffield, South Yorkshire S1 1WB United Kingdom	23 May 1983 and 21 May 1984 1 week	Professional qualification. English	-	To be arranged
Industrial technology	Short courses on: fibre optics for instrumentation; moisture measurement in solids and gases; safety of electrical instrumentation in potentially explosive atmospheres; microprocessors.	Sira Institute Limited South Hill Chislehurst Kent BR7 5EH United Kingdom	Throughout year 2-3 days	Professional qualification. English	-	£356,75- £488,75
Economics of technological change and policy	The course will introduce students to some economic implications of changing technology, and to the economic factors which impinge upon the rate and direction of inventive and innovative activity.	Department of Economics University of Manchester Manchester M13 9PL United Kingdom	To be arranged	Professional qualification. English	-	To be arranged
Microprocessors	Intensive course in the specially equipped microprocessor laboratory using Z80 single board, VDU, and 380Z development systems.	Department of Electrical Engineering University of Manchester Dover Street Manchester M13 9PL United Kingdom	January, March, June, September (4 times a year) 10 working days)	Scientific or engineering qualification. English	-	£425 approx.

OTHER TRAINING OPPORTUNITIES AND SHORT COURSES (Cont'd)

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Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Tribology	Practical aspects of friction lubrication and wear.	University College of Swansea Department of Mechanical Engineering Swansea SA2 8PP United Kingdom	September 1983 and 1984 To be decided	Professional qualification. English	-	Approx. £230
Gum chemistry and technology in the food industry	Purpose is to provide an overview of the large and increasingly important role gums play in the development and manufacture of processed food products.	American Association of Cereal Chemists 3340 Pilot Knob Road St. Paul, Minn. United States of America	November 1983 (tentative) 2 1/2 days	Professional qualification. English	-	To be arranged
Introduction to cereal chemistry and technology	To provide an overview of the unique biological properties of cereal grains for those who have not had formal training in cereal chemistry.	American Association of Cereal Chemists 3340 Pilot Knob Road St. Paul, Minn. United States of America	May 1983 -	Professional qualification. English	-	To be arranged
Milling for cereal chemists	Designed to provide cereal chemists with an in-depth view of the milling process, the opportunity to work with milling equipment, and to teach them the fundamentals of the milling process.	American Association of Cereal Chemists 3340 Pilot Knob Road St. Paul, Minn. United States of America	January 1983 -	Professional qualification. English	-	To be arranged
Chemistry and microbiology	Scientific meetings and workshops of interest to chemists and microbiologists.	Association of Official Analytical Chemists 1111 N. 19th Street Suite 210 Arlington, VA 22209 United States of America (various cities)	19-21 April, 2-6 October 1983 May and 28 October-1 November 1984 3-5 days	Professional qualification. English	-	To be arranged
Design of steel weldments	The efficient use of steel in the design of weldments for machinery and other welded products.	The Lincoln Electric Co. 22801 St. Clair Cleveland, Ohio 44117 United States of America	Every 4 months 5 days	Professional qualification. English	-	\$US 100

OTHER TRAINING OPPORTUNITIES AND SHORT COURSES (Cont'd)

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Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Design of welded steel structures	The efficient use of welded steel in the design of buildings, bridges, and other structures.	The Lincoln Electric Co. 22801 St. Clair Cleveland, Ohio 44117 United States of America	Every 4 months 5 days	Professional qualification. English	-	\$US 100
Production welding	The efficient application of welding techniques in production and the supervision of plant welding programmes.	The Lincoln Electric Co. 22801 St. Clair Cleveland, Ohio 44117 United States of America	Every other month 4 days	Professional qualification. English	-	\$US 100
Management and communication	Change, organizational communication, problem solving, leadership styles, motivation, persuasion, time management, decision making, delegation, developing and maintaining effective working relationships.	Management-Communication Associates P.O. Box 366 East Lansing Michigan 48823 United States of America (various other cities)	Year-round 5 or 10 days	Professional qualification. English	-	\$US 300 or \$US 575
Measurement systems dynamics	Problems of measuring dynamic mechanical and thermal quantities by electrical means. Use of the new unified approach to the engineering of measuring systems.	Stein Engineering Services Inc. 5602 East Monte Rosa Phoenix, AZ 85018 United States of America	14 March 1983 5 days	BS degree. English	26 February 1983	\$US 750
Measurement systems engineering	The electrical measurement of mechanical and thermal quantities using the new unified approach to the engineering of measurements.	Stein Engineering Services Inc. 5602 East Monte Rosa Phoenix, AZ 85018 United States of America	7 March 1983 5 days	BS degree. English	26 February 1983	\$US 750
Co-operatives	Co-operative education and management seminar, including such areas as co-operative development, structure and organization of co-operatives, financial structure of co-operatives, co-operative education, management of co-operatives, financial management and analysis, personnel management, public relations, marketing and merchandising through co-operatives, and operations of various types of co-operative societies.	University Center for Cooperatives University of Wisconsin-Extension Madison, Wisconsin 53706, United States of America	29 August 1983 and 27 August 1984 16 weeks	Third World co-operative leaders and officials with at least a secondary school education and experience in co-operative work. English	1 July 1983 and 1984	\$US 7,815

OTHER TRAINING OPPORTUNITIES AND SHORT COURSES (Cont'd)

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Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Electrical engineering	Short courses on: power system stability; analysis of load management; distribution planning; testing of power equipment; engineering economics; probability and insulation co-ordination; generation planning; interfacing industrial and customer-owned generation with utility systems.	Westinghouse Electric Corp. 777 Penn Centre Boulevard Pittsburgh, PA 15235 United States of America	Throughout year 3-4 days	Engineering degree. English	-	\$US 870- \$US 980
Control micro-biologico de productos alimenticios	Introducción; microorganismos de importancia encontrados en alimentos; descomposición y deterioro de los alimentos; preservación de alimentos; principios generales y métodos específicos utilizados en el análisis microbiológico de los alimentos; avances recientes en técnicas analíticas; microorganismos causantes de toxo infecciones alimentarias; puntos críticos de control durante procesamiento de los alimentos; programa práctico.	Instituto Venezolano de Investigaciones Tecnológicas e Industriales - INVESTI Apartado postal 1697 Caracas 1010-A Venezuela	Febrero 1983 1 semana	Técnico superior o licenciado. Español	-	Bs. 2,900
Técnicas de embalaje y empaque de productos alimenticios	Introducción al estudio de empaques para alimentos; materiales de empaque; permeabilidad de los materiales; consideraciones económicas y ambientales con respecto al uso del producto; aplicación de distintos materiales de empaque en las industrias de alimentos; diseño y análisis de materiales de empaque; migración de componentes químicos a los alimentos; máquinas y equipos de empaque; discusión y solución de problemas; prácticas.	Instituto Venezolano de Investigaciones Tecnológicas e Industriales - INVESTI Apartado postal 1697 Caracas 1010-A Venezuela	Mayo 1983 1 semana	Técnico superior o licenciado. Español	-	Bs. 3,200
Técnicas de evaluación sensorial en la industria de alimentos	Introducción a la evaluación sensorial, importancia y aplicación; fisiología y psicología de la evaluación sensorial; preparación de las muestras; los jueces: selección y entrenamiento; tipos de pruebas: clasificación, aplicación, análisis e interpretación; introducción al análisis descriptivo, perfil de sabor y perfil de textura; la evaluación sensorial con consumidores; correlación de los resultados de la evaluación sensorial con los problemas objetivos; optimización de la evaluación sensorial en el desarrollo de nuevos productos; prácticas en degustación y en diseño de pruebas.	Instituto Venezolano de Investigaciones Tecnológicas e Industriales - INVESTI Apartado postal 1697 Caracas 1010-A Venezuela	Julio 1983 1 semana	Técnico superior o licenciado. Español	-	Bs. 3,200

OTHER TRAINING OPPORTUNITIES AND SHORT COURSES (Cont'd)

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Course or Seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications: Language requirements	Last date for receipt of applications	Fee
Técnicas para asegurar y controlar la calidad de productos alimenticios	Introducción; organización, responsabilidades e implementación del programa de control de calidad; métodos de estadística en control de calidad; evaluación sensorial de alimentos; aspectos microbiológicos en control de calidad; control de calidad de agua; cuerpos extraños en productos alimenticios; saneamiento de la planta; métodos de análisis físico-químico.	Instituto Venezolano de Investigaciones Tecnológicas e Industriales - INVESTITI Apartado postal 1697 Caracas 1010-A Venezuela	Abril 1983 1 semana	Técnico superior o licenciado. Español	-	Bs. 2,900
Tratamiento y control de calidad de aguas industriales	Introducción; propiedades del agua; análisis del agua; tratamiento de aguas blancas; efectos de varios procesos industriales sobre la calidad del agua.	Instituto Venezolano de Investigaciones Tecnológicas e Industriales - INVESTITI Apartado postal 1697 Caracas 1010-A Venezuela	Marzo 1983 1 semana	Técnico superior o licenciado. Español	-	Bs. 3,100

CHAPTER 4: FIELDS OF TRAINING BY HOST COUNTRIES

The following is a list of the host countries included in this Guide. Under each country's name the fields of training are listed in the order in which they appear in the Guide (see table of contents). Distinction is made between training programmes offered by UNIDO (A) and fields of training in which training opportunities are offered by institutions other than UNIDO (B).

- ARGENTINA B
- Chemical industries
 - Food processing industries
 - Leather and leather products industries
- AUSTRALIA A
- Wood processing; and wood products
- B
- Energy
 - Management and industrial administration
- AUSTRIA A
- Chemical industries
 - Trainer development
- B
- Chemical industries
 - Industrial information and documentation
- BANGLADESH B
- Management and industrial administration
- BELGIUM A
- Environment
 - Maintenance and repair
 - Management and industrial administration
 - Mechanical industries
 - Textile industries
- B
- Building materials industries
 - Chemical industries
 - Environment
 - Food processing industries
 - Glass and optical industries

BELGIUM	B	<ul style="list-style-type: none">- Industrial planning and programming- Investment promotion and industrial financing- Leather and leather products industries- Management and industrial administration- Marketing and export promotion- Mechanical and metalworking industries- Metallurgical industries- Packaging industries- Quality control and standardization- Textile industries- Wood processing and wood products industries
BRAZIL	B	<ul style="list-style-type: none">- Quality control and standardization
BULGARIA	A	<ul style="list-style-type: none">- Management and industrial administration- Mechanical and metalworking industries
CAMEROON, UNITED REPUBLIC OF	A	<ul style="list-style-type: none">- Management and industrial administration
CHILE	B	<ul style="list-style-type: none">- Industrial planning and programming- Management and industrial administration- Metallurgical industries
CHINA, PEOPLE'S REPUBLIC OF	A	<ul style="list-style-type: none">- Mechanical and metalworking industries
COLOMBIA	A	<ul style="list-style-type: none">- Trainer development
CONGO, PEOPLE'S REPUBLIC OF	B	<ul style="list-style-type: none">- Management and industrial administration
CYPRUS	B	<ul style="list-style-type: none">- Management and industrial administration

CZECHOSLOVAKIA A
 - Mechanical and metalworking industries
 B
 - Energy

EGYPT A
 - Industrial design
 B
 - Foodprocessing industries
 - Mechanical and metalworking industries
 - Metallurgical industries
 - Pulp and paper industries
 - Quality control and standardization

FINLAND A
 - Wood processing and wood products industries
 B
 - Marketing and export promotion
 - Wood processing and wood products industries

FRANCE A
 - Chemical industries
 - Industrial information and documentation
 - Quality control and standardization
 - Small-scale industries and entrepreneurship
 B
 - Automation and data processing
 - Energy
 - Environment
 - Foodprocessing industries
 - Industrial information and documentation
 - Maintenance and repair
 - Management and industrial administration
 - Marketing and export promotion
 - Quality control and standardization

GERMAN DEMOCRATIC
REPUBLIC A
 - Chemical industries
 - Industrial planning and programming
 - Printing industries

GERMAN DEMOCRATIC B
REPUBLIC
- Chemical industries
- Industrial planning and programming
- Printing industries

GERMANY, FEDERAL B
REPUBLIC OF
AND BERLIN
(WEST)
- Automation and data processing
- Chemical industries
- Electrical and electronic industries
- Industrial planning and programming
- Management and industrial administration
- Marketing and export promotion
- Printing industries
- Quality control and standardization
- Small-scale industries and entrepreneurship

GREECE B
- Management and industrial administration

HONG KONG B
- Automation and data processing
- Management and industrial administration

HUNGARY B
- Building materials industries
- Electrical and electronic industries
- Textile industries

INDIA A
- Electrical and electronic industries

B
- Automation and data processing
- Chemical industries
- Electrical and electronic industries
- Food processing industries
- Industrial design
- Industrial planning and programming
- Leather and leather products industries
- Management and industrial administration
- Mechanical and metalworking industries
- Packaging industries
- Quality control and standardization
- Small-scale industries and entrepreneurship
- Trainer development

INDONESIA A
 - Chemical industries
 B
 - Management and industrial administration

IRAQ B
 - Management and industrial administration

IRELAND B
 - Industrial planning and programming
 - Management and industrial administration
 - Small-scale industries and entrepreneurship
 - Trainer development

ISRAEL B
 - Small-scale industries and entrepreneurship

ITALY A
 - Leather and leather products industries
 - Management and industrial administration
 - Textile industries
 B
 - Automation and data processing
 - Energy
 - Food processing industries
 - Industrial design
 - Management and industrial administration
 - Mechanical and metalworking industries
 - Metallurgical industries
 - Quality control and standardization

IVORY COAST A
 - Small-scale industries and entrepreneurship

JAPAN A
 - Industrial planning and programming
 - Quality control and standardization
 B
 - Automation and data processing
 - Industrial design
 - Management and industrial administration
 - Quality control and standardization

KENYA	B	- Quality control and standardization
KOREA, REPUBLIC OF	B	- Automation and data processing - Industrial design - Packaging industries
MOROCCO	B	- Food processing industries - Management and industrial administration - Packaging industries
NEPAL	B	- Industrial planning and programming - Management and industrial administration - Marketing and export promotion
NETHERLANDS	B	- Building materials industries - Electrical and electronic industries - Food processing industries - Industrial planning and programming - Leather and leather products industries - Management and industrial administration - Marketing and export promotion - Mechanical and metalworking industries - Metallurgical industries - Quality control and standardization - Small-scale industries and entrepreneurship - Textile industries
NEW ZEALAND	B	- Energy - Management and industrial administration
NORWAY	B	- Pulp and paper industries
PAKISTAN	B	- Building materials industries - Management and industrial administration - Mechanical and metalworking industries - Textile industries

PANAMA	B	- Management and industrial administration
PERU	B	- Investment promotion and industrial financing
PHILIPPINES	A	- Energy - Maintenance and repair - Industrial planning and programming - Small-scale industries and entrepreneurship
	B	- Industrial information and documentation - Small-scale industries and entrepreneurship - Textile industries - Wood processing and wood products industries
POLAND	A	- Management and industrial administration
PORTUGAL	B	- Management and industrial administration
ROMANIA	A	- Chemical industries
	B	- Automation and data processing - Chemical industries - Management and industrial administration
SINGAPORE	B	- Management and industrial administration - Quality control and standardization
SOMALIA	B	- Management and industrial administration
SPAIN	B	- Food processing industries - Management and industrial administration

SRI LANKA	A	- Industrial planning and programming
SWEDEN	B	- Food processing industries - Quality control and standardization
SWITZERLAND	B	- Food processing industries - Management and industrial administration
SYRIAN ARAB REPUBLIC	A	- Industrial planning and programming
TANZANIA, UNITED REPUBLIC OF	B	- Management and industrial administration
THAILAND	B	- Energy
TUNISIA	A	- Trainer development
TURKEY	A	- Building materials industries - Food processing industries - Mechanical and metalworking industries
	B	- Building materials industries - Chemical industries - Food processing industries - Mechanical and metalworking industries
UKRAINIAN SSR	A	- Mechanical and metalworking industries - Metallurgical industries
UNITED KINGDOM	B	- Automation and data processing - Building materials industries - Chemical industries

UNITED KINGDOM

- Electrical and electronic industries
- Energy
- Environment
- Food processing industries
- Industrial design
- Industrial planning and programming
- Investment promotion and industrial financing
- Maintenance and repair
- Management and industrial administration
- Marketing and export promotion
- Mechanical and metalworking industries
- Packaging industries
- Printing industries
- Pulp and paper industries
- Quality control and standardization
- Small-scale industries and entrepreneurship
- Textile industries
- Trainer development
- Wood processing and wood products industries

UNITED STATES
OF AMERICA

B

- Automation and data processing
- Energy
- Management and industrial administration
- Marketing and export promotion
- Trainer development

UNION OF SOVIET
SOCIALIST
REPUBLICS

A

- Chemical industries
- Food processing industries
- Industrial information and documentation
- Mechanical and metalworking industries

URUGUAY

B

- Management and industrial administration

YUGOSLAVIA

A

- Management and industrial administration
- Quality control and standardization
- Trainer development
- Wood processing and wood products industries

UNITED NATIONS AND RELATED ORGANIZATIONS

FOOD AND AGRICULTURE ORGANIZATION - FAO

- Environment
- Food processing industries
- Wood processing and wood products industries

INTERNATIONAL LABOUR ORGANIZATION - ILO

- Automation and data processing
- Energy
- Environment
- Small-scale industries and entrepreneurship
- Trainer development

UNITED NATIONS CONFERENCE ON TRADE AND DEVELOPMENT - UNCTAD

- Chemical industries
- Food processing industries
- Industrial information and documentation

WORLD INTELLECTUAL PROPERTY ORGANIZATION - WIPO

- Industrial information and documentation

CHAPITRE 4 : DOMAINES DE FORMATION, PAR PAYS

On trouvera, ci-après, une liste des pays d'accueil figurant dans l'Aperçu. Pour chacun de ces pays on a indiqué, dans le même ordre que dans l'Aperçu (voir la table des matières), les domaines sur lesquels porte la formation, en distinguant selon que les possibilités de formation sont offertes par l'ONUDI (A) ou par d'autres institutions (B).

ALLEMAGNE, REPUBLIQUE FEDERALE D' ET BERLIN-OUEST	B - Automatisation et traitement des données - Contrôle de la qualité et normalisation - Gestion et administration industrielle - Industrie chimique - Industries électriques et électroniques - Marketing et promotion des exportations - Petites industries et entrepreneurs - Planification et programmation industrielles
ARGENTINE	B - Industrie alimentaire - Industrie chimique - Industrie du cuir et des articles en cuir
AUSTRALIE	A - Industrie du bois et des produits du bois B - Energie - Gestion et administration industrielle
AUTRICHE	A - Formation des formateurs - Industrie chimique B - Industrie chimique - Information et documentation industrielles
BANGLADESH	B - Gestion et administration industrielle

BELGIQUE

A

- Entretien et réparation
- Environnement
- Gestion et administration industrielle
- Industries mécaniques
- Industrie textile

B

- Contrôle de la qualité et normalisation
- Environnement
- Gestion et administration industrielle
- Industrie alimentaire
- Industrie du bois et des produits du bois
- Industrie chimique
- Industrie du cuir et des articles en cuir
- Industrie de l'emballage
- Industrie des matériaux de construction
- Industries mécaniques et transformation des métaux
- Industrie métallurgique
- Industrie textile
- Industrie de la verrerie et de l'optique
- Marketing et promotion des exportations
- Planification et programmation industrielles
- Promotion des investissements et financement industriel

BRESIL

B

- Contrôle de la qualité et normalisation

BULGARIE

A

- Gestion et administration industrielle
- Industries mécaniques et transformation des métaux

CHILI

B

- Gestion et administration industrielle
- Industrie métallurgique
- Planification et programmation industrielles

CHINE

A

- Industries mécaniques et transformation des métaux

CHYPRE

B

- Gestion et administration industrielle

COLOMBIE	A	- Formation des formateurs
CONGO	B	- Gestion et administration industrielle
COTE D'IVOIRE	A	- Petites industries et entrepreneurs
EGYPTE	A	- Etudes et plans industriels
	B	- Contrôle de la qualité et normalisation - Industrie alimentaire - Industries mécaniques et transformation des métaux - Industrie métallurgique - Industrie de la pâte à papier et du papier
ESPAGNE	B	- Gestion et administration industrielle - Industrie alimentaire
ETATS-UNIS D'AMERIQUE	B	- Automatisation et traitement des données - Energie - Formation des formateurs - Gestion et administration industrielle - Marketing et promotion des exportations
FINLANDE	A	- Industrie du bois et des produits du bois
	B	- Industrie du bois et des produits du bois - Marketing et promotion des exportations
FRANCE	A	- Contrôle de la qualité et normalisation - Industrie chimique - Information et documentation industrielles - Petites industries et entrepreneurs

- FRANCE B
- Automatisation et traitement des données
 - Contrôle de la qualité et normalisation
 - Energie
 - Entretien et réparation
 - Environnement
 - Gestion et administration industrielle
 - Industrie alimentaire
 - Information et documentation industrielles
 - Marketing et promotion des exportations
- GRECE B
- Gestion et administration industrielle
- HONG-KONG B
- Automatisation et traitement des données
 - Gestion et administration industrielle
- HONGRIE B
- Industries électriques et électroniques
 - Industrie des matériaux de construction
 - Industrie textile
- INDE A
- Industries électriques et électroniques
- B
- Automatisation et traitement des données
 - Contrôle de la qualité et normalisation
 - Etudes et plans industriels
 - Formation des formateurs
 - Gestion et administration industrielle
 - Industrie alimentaire
 - Industrie chimique
 - Industrie du cuir et des articles en cuir
 - Industries électriques et électroniques
 - Industrie de l'emballage
 - Industries mécaniques et transformation des métaux
 - Petites industries et entrepreneurs
 - Planification et programmation industrielles
- INDONESIE A
- Industrie chimique
- B
- Gestion et administration industrielle

IRAQ B
- Gestion et administration industrielle

IRLANDE B
- Formation des formateurs
- Gestion et administration industrielle
- Petites industries et entrepreneurs
- Planification et programmation industrielles

ISRAEL B
- Petites industries et entrepreneurs

ITALIE A
- Gestion et administration industrielle
- Industrie du cuir et des articles en cuir
- Industrie textile

B
- Automatisation et traitement des données
- Contrôle de la qualité et normalisation
- Energie
- Etudes et plans industriels
- Gestion et administration industrielle
- Industrie alimentaire
- Industries mécaniques et transformation des métaux
- Industrie métallurgique

JAPON A
- Contrôle de la qualité et normalisation
- Planification et programmation industrielles

B
- Automatisation et traitement des données
- Contrôle de la qualité et normalisation
- Etudes et plans industriels
- Gestion et administration industrielle

KENYA B
- Contrôle de la qualité et normalisation

MAROC B
- Gestion et administration industrielle
- Industrie alimentaire
- Industrie de l'emballage

- NEPAL B
- Gestion et administration industrielle
- Marketing et promotion des exportations
- Planification et programmation industrielles
- NORVEGE B
- Industrie de la pâte à papier et du papier
- NOUVELLE-ZELANDE B
- Energie
- Gestion et administration industrielle
- PAKISTAN B
- Gestion et administration industrielle
- Industrie des matériaux de construction
- Industries mécaniques et transformation des métaux
- Industrie textile
- PANAMA B
- Gestion et administration industrielle
- PAYS-BAS B
- Contrôle de la qualité et normalisation
- Gestion et administration industrielle
- Industrie alimentaire
- Industrie du cuir et des articles en cuir
- Industries électriques et électroniques
- Industrie des matériaux de construction
- Industries mécaniques et transformation des métaux
- Industrie métallurgique
- Industrie textile
- Marketing et promotion des exportations
- Petites industries et entrepreneurs
- Planification et programmation industrielles
- PEROU B
- Promotion des investissements et financement industriel

PHILIPPINES A
- Energie
- Entretien et réparation
- Petites industries et entrepreneurs
- Planification et programmation industrielles
B
- Industrie du bois et des produits du bois
- Industrie textile
- Information et documentation industrielles
- Petites industries et entrepreneurs

POLOGNE A
- Gestion et administration industrielle

PORTUGAL B
- Gestion et administration industrielle

REPUBLIQUE
ARABE SYRIENNE A
- Planification et programmation industrielles

REPUBLIQUE
DE COREE B
- Automatisation et traitement des données
- Etudes et plans industriels
- Industrie de l'emballage

REPUBLIQUE
DEMOCRATIQUE
ALLEMANDE A
- Industrie chimique
- Industries graphiques
- Planification et programmation industrielles
B
- Industrie chimique
- Industries graphiques
- Planification et programmation industrielles

REPUBLIQUE
SOCIALISTE
SOVIETIQUE
D'UKRAINE A
- Industries mécaniques et transformation des métaux
- Industrie métallurgique

SOMALIE	B	- Gestion et administration industrielle
SRI LANKA	A	- Planification et programmation industrielles
SUEDE	B	- Contrôle de la qualité et normalisation - Industrie alimentaire
SUISSE	B	- Gestion et administration industrielle - Industrie alimentaire
TCHECOSLOVAQUIE	A	- Industries mécaniques et transformation des métaux
	B	- Energie
THAILANDE	B	- Energie
TUNISIE	A	- Formation des formateurs
TURQUIE	A	- Industrie alimentaire - Industrie des matériaux de construction - Industries mécaniques et transformation des métaux
	B	- Industrie alimentaire - Industrie chimique - Industrie des matériaux de construction - Industries mécaniques et transformation des métaux
UNION DES REPUBLIQUES SOCIALISTES SOVIETIQUES	A	- Industrie alimentaire - Industrie chimique - Industries mécaniques et transformation des métaux - Information et documentation industrielles

- URUGUAY B
- Gestion et administration industrielle
- YUGOSLAVIE A
- Contrôle de la qualité et normalisation
- Formation des formateurs
- Gestion et administration industrielle
- Industrie du bois et des produits du bois

ORGANISATION DU SYSTEME DES NATIONS UNIES ET ORGANISATIONS APPARENTÉES

CONFERENCE DES NATIONS UNIES SUR LE COMMERCE ET LE DEVELOPPEMENT (CNUCED)

- Industrie alimentaire
- Industrie chimique
- Information et documentation industrielles

ORGANISATION DES NATIONS UNIES POUR L'ALIMENTATION ET L'AGRICULTURE (FAO)

- Environnement
- Industrie alimentaire
- Industrie du bois et des produits du bois

ORGANISATION INTERNATIONALE DU TRAVAIL (OIT)

- Automatisation et traitement des données
- Energie
- Environnement
- Formation des formateurs
- Petites industries et entrepreneurs

ORGANISATION MONDIALE DE LA PROPRIÉTÉ INTELLECTUELLE (OMPI)

- Information et documentation industrielles

CAPITULO 4: ESFERAS DE CAPACITACION POR PAISES HUESPEDES

A continuación figura una lista de los países huéspedes incluidos en la presente Guía. Debajo del nombre de cada país figuran las esferas de capacitación en el orden en que aparecen en la Guía (véase el índice). Se hace una distinción entre los programas de capacitación que ofrece la ONUDI (A) y las esferas de capacitación en que instituciones diferentes de la ONUDI (B) ofrecen oportunidades de formación.

- | | |
|---|---|
| ALEMANIA,
REPUBLICA
FEDERAL DE
Y BERLIN
(OESTE) | B
- Automatización e informática
- Comercialización y promoción de la exportación.
- Control de calidad y normalización
- Gestión y administración industrial
- Industrias de la imprenta
- Industrias eléctricas y electrónica
- Industrias químicas
- Pequeña industrias y gestión empresarial
- Planificación y programación industriales |
| ARGENTINA | B
- Industrias de elaboración de alimentos
- Industrias del cuero y los productos de cuero
- Industrias químicas |
| AUSTRALIA | A
- Industrias del trabajo de la madera y los productos madereros
B
- Energía
- Gestión y administración industrial |
| AUSTRIA | A
- Industrias químicas
- Perfeccionamiento de capacitadores
B
- Industrias químicas
- Información y documentación industriales |
| BANGLADESH | B
- Gestión y administración industrial |

BELGICA

A

- Gestión y administración industrial
- Industrias mecánicas
- Industrias textiles
- Mantenimiento y reparación
- Medio ambiente

B

- Comercialización y promoción de la exportación
- Control de calidad y normalización
- Gestión y administración industrial
- Industrias de elaboración de alimentos
- Industrias del cuero y los productos de cuero
- Industrias del envasado
- Industrias de los materiales de construcción
- Industrias del trabajo de la madera y los productos madereros
- Industrias del vidrio y óptica
- Industrias mecánicas y de transformación de metales
- Industrias metalúrgicas
- Industrias químicas
- Industrias textiles
- Medio ambiente
- Planificación y programación industriales
- Promoción de inversiones y financiación industrial

BRASIL

B

- Control de calidad y normalización

BULGARIA

A

- Gestión y administración industrial
- Industrias mecánica y transformación de metales

COLOMBIA

A

- Perfeccionamiento de capacitadores

CONGO

B

- Gestión y administración industrial

COSTA DE MARFIL

A

- Pequeñas industrias y gestión empresarial

CHECOSLOVAQUIA	A	- Industrias mecánicas y de transformación de metales
	B	- Energía
CHILE	B	- Gestión y administración industrial - Industrias metalúrgicas - Planificación y programación industriales
CHINA	A	- Industrias mecánicas y de transformación de metales
CHIPRE	B	- Gestión y administración industrial
EGIPTO	A	- Diseño industrial
	B	- Control de calidad y normalización - Industrias de elaboración de alimentos - Industrias de la celulosa y el papel - Industrias mecánicas y de transformación de metales - Industrias metalúrgicas
ESPAÑA	B	- Gestión y administración industrial - Industrias de elaboración de alimentos
ESTADOS UNIDOS DE AMERICA	B	- Automatización e informática - Comercialización y promoción de la exportación - Energía - Gestión y administración industrial - Perfeccionamiento de capacitadores
FILIPINAS	A	- Energía - Mantenimiento y reparación - Pequeñas industrias y gestión empresarial - Planificación y programación industriales

- FILIPINAS B
- Industrias del trabajo de la madera y los productos madereros
 - Industrias textiles
 - Información y documentación industriales
 - Pequeña industria y gestión empresarial
- FINLANDIA A
- Industrias del trabajo de la madera y los productos madereros
- B
- Comercialización y promoción de la exportación
 - Industrias del trabajo de la madera y los productos madereros
- FRANCIA A
- Control de calidad y normalización
 - Industrias químicas
 - Información y documentación industriales
 - Pequeñas industrias y gestión empresarial
- B
- Automatización e informática
 - Comercialización y promoción de la exportación
 - Control de calidad y normalización
 - Energía
 - Gestión y administración industrial
 - Industrias de elaboración de alimentos
 - Información y documentación industriales
 - Mantenimiento y reparación
 - Medio ambiente
- GRECIA B
- Gestión y administración industrial
- HONG KONG B
- Automatización e informática
 - Gestión y administración industrial
- HUNGRÍA B
- Industrias de los materiales de construcción
 - Industrias eléctrica y electrónica
 - Industrias textiles

- INDIA
- A
 - Industrias eléctrica y electrónica
 - B
 - Automatización e informática
 - Control de calidad y normalización
 - Diseño industrial
 - Gestión y administración industrial
 - Industrias de elaboración de alimentos
 - Industrias del cuero y los productos de cuero
 - Industrias del envasado
 - Industrias eléctrica y electrónica
 - Industrias mecánicas y de transformación de metales
 - Industrias químicas
 - Pequeñas industrias y gestión empresarial
 - Perfeccionamiento de capacitadores
 - Planificación y programación industriales
- INDONESIA
- A
 - Industrias químicas
 - B
 - Gestión y administración industrial
- IRAQ
- B
 - Gestión y administración industrial
- IRLANDA
- B
 - Gestión y administración industrial
 - Pequeñas industrias y gestión empresarial
 - Perfeccionamiento de capacitadores
 - Planificación y programación industriales
- ISRAEL
- B
 - Pequeñas industrias y gestión empresarial
- ITALIA
- A
 - Gestión y administración industrial
 - Industrias del cuero y los productos de cuero
 - Industrias textiles

ITALIA	B	<ul style="list-style-type: none">- Automatización e informática- Control de calidad y normalización- Diseño industrial- Energía- Gestión y administración industrial- Industrias de elaboración de alimentos- Industrias mecánicas y de transformación de metales- Industrias metalúrgicas
JAPON	A	<ul style="list-style-type: none">- Control de calidad y normalización- Planificación y programación industriales
	B	<ul style="list-style-type: none">- Automatización e informática- Control de calidad y normalización- Diseño industrial- Gestión y administración industrial
KENYA	B	<ul style="list-style-type: none">- Control de calidad y normalización
MARRUECOS	B	<ul style="list-style-type: none">- Gestión y administración industrial- Industrias de elaboración de alimentos- Industrias del envasado
NEPAL	B	<ul style="list-style-type: none">- Comercialización y promoción de la exportación- Gestión y administración industrial- Planificación y programación industriales
NORUEGA	B	<ul style="list-style-type: none">- Industrias de la celulosa y el papel
NUEVA ZELANDIA	B	<ul style="list-style-type: none">- Energía- Gestión y administración industrial

- PAISES BAJOS B
- Comercialización y promoción de las exportación
 - Control de calidad y normalización
 - Gestión y administración industrial
 - Industrias de elaboración de alimentos
 - Industrias del cuero y los productos de cuero
 - Industrias de los materiales de construcción
 - Industrias eléctrica y electrónica
 - Industrias mecánicas y de transformación de metales
 - Industrias metalúrgicas
 - Industrias textiles
 - Pequeñas industrias y gestión empresarial
 - Planificación y programación industriales
- PAKISTAN B
- Gestión y administración industrial
 - Industrias de los materiales de construcción
 - Industrias mecánicas y de transformación de metales
 - Industrias textiles
- PANAMA B
- Gestión y administración industrial
- PERU B
- Promoción de inversiones y financiación industrial
- POLONIA A
- Gestión y administración industrial
- PORTUGAL B
- Gestión y administración industrial
- REINO UNIDO DE
GRAN BRETAÑA E
IRLANDA DEL NORTE B
- Automatización e informática
 - Comercialización y promoción de la exportación
 - Control de calidad y normalización
 - Diseño industrial
 - Energía
 - Gestión y administración industrial
 - Industrias de elaboración de alimentos
 - Industrias de la celulosa y el papel
 - Industrias de la imprenta

REINO UNIDO DE
GRAN BRETAGÑA E
IRLANDA DEL NORTE

- Industrias del envasado
- Industrias de los materiales de construcción
- Industrias del trabajo de la madera y los productos madereros
- Industrias eléctrica y electrónica
- Industrias mecánicas y de transformación de metales
- Industrias químicas
- Industrias textiles
- Mantenimiento y reparación
- Medio ambiente
- Pequeñas industrias y gestión empresarial
- Perfeccionamiento de capacitadores
- Planificación y programación industriales
- Promoción de inversiones y financiación industrial

REPUBLICA ARABE
SIRIA

A

- Planificación y programación industriales

REPUBLICA DE
COREA

B

- Automatización e informática
- Diseño industrial
- Industrias del envasado

REPUBLICA
DEMOCRATICA
ALEMANA

A

- Industrias de la imprenta
- Industrias químicas
- Planificación y programación industriales

B

- Industrias de la imprenta
- Industrias químicas
- Planificación y programación industriales

REPUBLICA
SOCIALISTA
SOVIETICA DE
UCRANIA

A

- Industrias mecánicas y de transformación de metales
- Industrias metalúrgicas

REPUBLICA UNIDA
DEL CAMERUN

A

- Gestión y administración industrial

REPUBLICA UNIDA DE TANZANIA	B - Gestión y administración industrial
RUMANIA	A - Industrias químicas B - Automatización e informática - Gestión y administración industrial - Industrias químicas
SINGAPUR	B - Control de calidad y normalización - Gestión y administración industrial
SOMALIA	B - Gestión y administración industrial
SRI LANKA	A - Planificación y programación industrial
SUECIA	B - Control de calidad y normalización - Industrias de elaboración de alimentos
SUIZA	B - Industrias de elaboración de alimentos - Gestión y administración industrial
TAILANDIA	B - Energía
TUNEZ	A - Perfeccionamiento de capacitadores
TURQUIA	A - Industrias de elaboración de alimentos - Industrias de los materiales de construcción - Industrias mecánicas y de transformación de metales

TURQUIA B
- Industrias de elaboración de alimentos
- Industrias de los materiales de construcción
- Industrias mecánicas y de transformación de metales
- Industrias químicas

UNION DE REPUBLICAS SOCIALISTAS SOVIETICAS A
- Industrias de elaboración de alimentos
- Industrias mecánicas y de transformación de metales
- Industrias químicas
- Información y documentación industriales

URUGUAY B
- Gestión y administración industrial

YUGOSLAVIA A
- Control de calidad y normalización
- Gestión y administración industrial
- Industrias del trabajo de la madera y los productos madereros
- Perfeccionamiento de capacitadores

NACIONES UNIDAS Y ORGANIZACIONES CONEXAS

CONFERENCIA DE LAS NACIONES UNIDAS SOBRE COMERCIO Y DESARROLLO (UNCTAD)
- Industrias de elaboración de alimentos
- Industrias químicas
- Información y documentación industriales

ORGANIZACION DE LAS NACIONES UNIDAS PARA LA AGRICULTURA Y LA ALIMENTACION (FAO)
- Industrias de elaboración de alimentos
- Industrias del trabajo de la madera y los productos madereros
- Medio ambiente

ORGANIZACION INTERNACIONAL DEL TRABAJO (OIT)
- Automatización e informática
- Energía
- Medio ambiente
- Pequeñas industrias y gestión empresarial
- Perfeccionamiento de capacitadores

ORGANIZACION MUNDIAL DE LA PROPIEDAD INTELECTUAL (OMPI)
- Información y documentación industrial

