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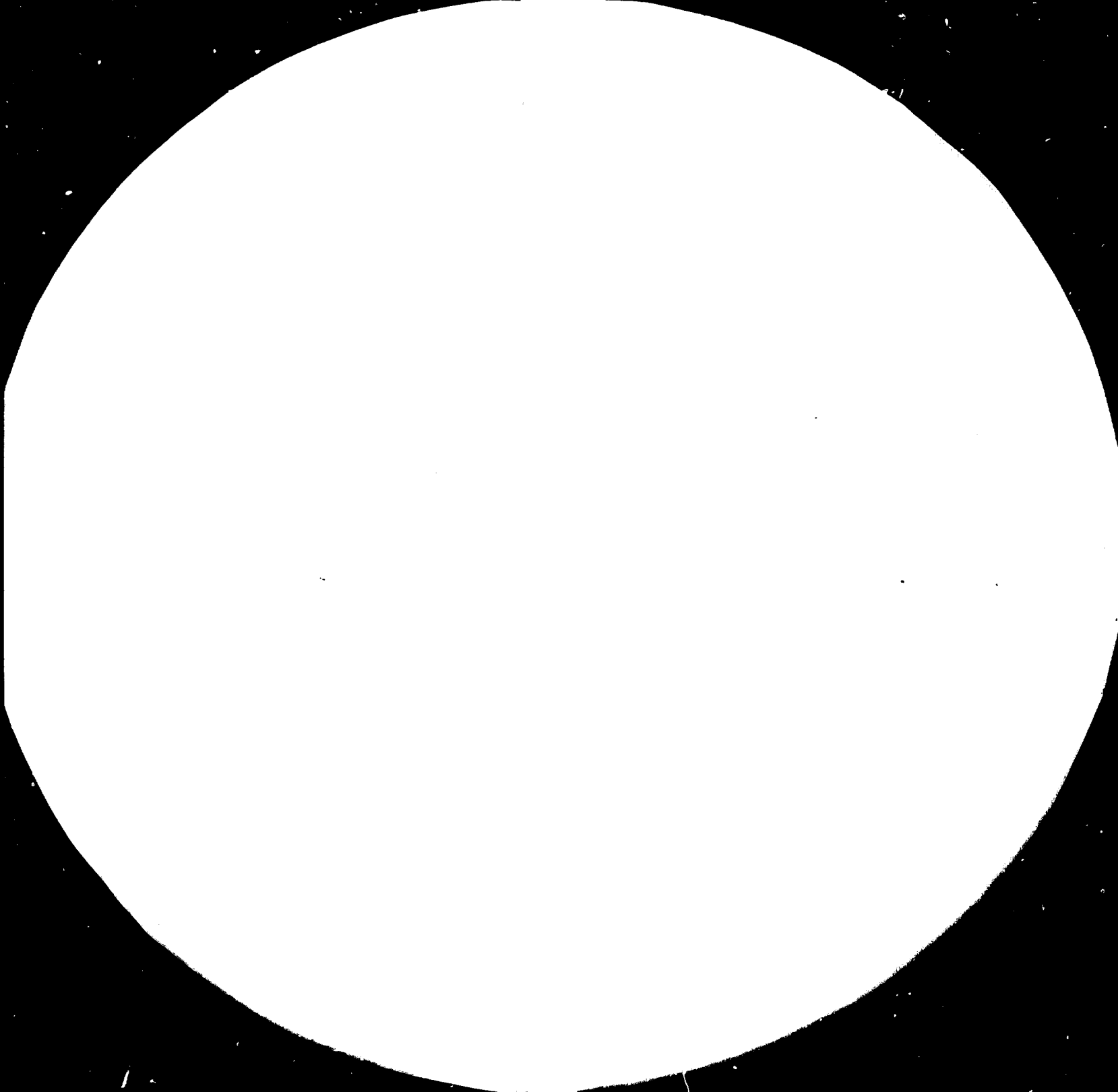
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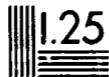
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**Guide to Training Opportunities  
for Industrial Development** (Thirteenth issue)

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

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

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

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**Please read preface carefully**

**Veillez lire la préface attentivement**

**Por favor, leáse el prefacio detenidamente**

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## PREFACE

This compilation of industrial training opportunities for personnel from developing countries is the thirteenth 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 430 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, 1985.

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 United Nations Conference on Trade and Development (UNCTAD), Geneva; the International Labour Organisation (ILO), Geneva; the International Centre for Advanced Technical and Vocational Training in Turin, Italy; the International Maritime Organization (IMO), London; the Food and Agriculture Organization of the United Nations (FAO), Rome; the United Nations Educational, Scientific and Cultural Organization (UNESCO), Paris; the World Intellectual Property Organization (WIPO), Geneva; and other international organizations.

It is hoped that this publication will continue to benefit those in developing countries who are in need of industrial training. The fourteenth edition of the Guide is scheduled to appear in late 1985 and will cover courses to be offered in 1986 and, to the extent possible, 1987.

## PREFACE

Le présent répertoire des possibilités de formation industrielle offertes aux cadres de pays en développement est la treizième 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 430 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 1985".

(iii)

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 la Conférence des Nations Unies sur le commerce et le développement (CNUCED), 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 maritime internationale (OMI), à Londres; 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.

L'ONUDI espère que la présente publication sera aussi utile que les précédentes à ceux qui, dans les pays en développement, ont besoin d'une formation industrielle. La quatorzième édition du répertoire, qu'il est prévu de publier à la fin de 1985, indiquera les possibilités de formation offertes pour l'année 1986 et, dans la mesure du possible, pour l'année 1987.

#### PREFACIO

La presente compilación de oportunidades de capacitación industrial para personal de países en desarrollo constituye la décimo tercera 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 430 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 denota 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 existentes 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 cursos 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) y personal de categoría superior, dedicado a actividades relacionadas con la industria y su desarrollo. Con escasas excepciones, no se han incluido ni los cursos que forman parte de los planes de estudio ordinarios de universidades o instituciones similares, ni la información relativa a la capacitación especial impartida en la industria o en otros centros. Tampoco se han incluido los cursos a 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.



(iv)

La ONUDI no está en condiciones de 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 1985, se ofrece más información sobre las actividades de capacitación de la ONUDI.

Puede solicitarse información sobre servicios de capacitación, en muchas 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 Conferencia de las Naciones Unidas sobre Comercio y Desarrollo (UNCTAD), Ginebra, la Organización Internacional del Trabajo (OIT), Ginebra, el Centro Internacional de Perfeccionamiento Profesional y Técnico, de Turín (Italia), la Organización Marítima Internacional (OMI), Londres, 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 aquellas personas de los países en desarrollo que requieran capacitación industrial. La publicación de la décimo cuarta edición de este Repertorio está prevista para finales de 1985; comprenderá los cursos que se ofrecerán en 1986 y, en la medida de lo posible, en 1987.

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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 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 programmes 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 in the list below are scheduled to take place in 1985. 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 being clearly indicated for each of the programmes listed. Please note that the language in which the course will be conducted is 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 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 une 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 repondent 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 1985. 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 l'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 doit 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 una 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 1985. 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 por la entidad huésped. Los programas se celebrarán con carácter regional e interregional, esto está claramente indicado para cada programa anunciado. 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, DOI  
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					
Planification industrielle	Ce séminaire s'adresse à des ingénieurs, économistes, agronomes, sociologues, fonctionnaires ayant une expérience dans le domaine de la planification. Il a pour objectif d'une part de passer en revue les différentes stratégies industrielles mises-en oeuvre dans les structures de la planification globale du développement, et d'autre part, d'inciter les participants au partage de leurs expériences respectives en matière de planification industrielle. La finalité est la prise de conscience des difficultés et avantages de la planification régionale.	Agence de Coopération Culturelle et Technique Ecole Internationale de Bordeaux Bordeaux France	07/01- 08/02	Programme régionale pour l'Afrique  Français	Candidats disposant d'une expérience de plusieurs années et ayant un emploi.
Quality improvement of industrial products	Fundamental concepts and techniques of quality control; quality assurance and inspection; theory on standardization and implementation of quality management; quality planning, quality design, new products development and marketing; practical in-plant training on process improvement, standardization and quality assurance. Plant visits and study tours.	Japanese Association for Overseas Technical Scholarship (AOTS) Tokyo Japan	24/01- 22/03	Interregional programme  English	University or college graduates in engineering (or equivalent); quality managers, production managers or other managers of an industry with currently more than five years of supervisory experience in production, concerned with problems of quality improvement.
Energy efficiency	Participants from least developed countries will gain from the experience of another developing country and the advances achieved thus providing participants with more working knowledge on the various aspects of energy management and efficiency and equipping them with various tools and techniques in achieving fuel efficiency and in increasing energy productivity.	Technical Assistance Council (TAC) of the Philippines Bureau of Energy Utilization Productivity and Development Centre Manila Philippines	30/01- 27/02	Interregional programme  English	University degree in mechanical, electrical or chemical engineering (or equivalent) with at least two years of experience in plant or production engineering, or consultancy in energy management at the plant level. Preference will be given to candidates who could generate a "multiplier" effect, provided that such candidates meet the stipulated qualifications.



FEBRUARY - FEVRIER - FEBRERO

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. (13 to 15 big machine producing factories.)	Lumumba University Moscow Union of Soviet Socialist Republics	04/02- 01/06	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.
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MARCH - MARS - MARZO

Financement et évaluation des projets de développement	Ce séminaire de perfectionnement s'adresse à des responsables du ministère du Plan, ou du Développement rural, ingénieurs économistes chargés de projets. Il a pour objectifs de leur faire acquérir une meilleure vision globale des différentes étapes du développement d'un projet d'investissement depuis l'identification jusqu'à sa réalisation et d'améliorer leur capacité à l'issue de ce séminaire, de participer effectivement à des études de projet dans le cadre de leur spécialité.	Agence de Coopération Culturelle et Technique Ecole Internationale de Bordeaux Bordeaux France	04/03- 05/04	Programme interregionale  Français	Candidats disposant d'une expérience de plusieurs années et ayant un emploi.
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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, metalworking industry as well as laboratories.	E.O. Paton Electric Welding Institute Kiev Ukrainian Soviet Socialist Republic	15/03- 03/07	Interregional programme  English	A university degree (or equivalent) in electrical or mechanical engineering with at least three years of practical experience related to electric welding.
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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 Zaporozhe Ukrainian Soviet Socialist Republic	18/03- 17/07	Interregional programme  English	Metallurgical, chemical, electrical or 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.
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Grain milling and storage (with aspects of training of trainers).	Phase covers technological aspects: technology and equipment of elevators processing of grain, production of loose and granulated mixed fodders, quality control of grain, flour and mixed fodders, etc. Lecture type instruction, practical studies in laboratories and in-plant training in selected enterprises. Phase II or (trainers training): personnel management concept; management of the training function in the plant; determination and 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 USSR Ministry of State Purchases	26/03-19/07	Interregional programme English	Educational background (University degree or equivalent) related to technological science; managerial or supervisor post in a grain milling enterprise or in a governmental or semi-governmental body dealing with grain milling enterprises and at least three years of practical experience. Candidates are expected to carry out training activities in their home countries upon completion of the programme.
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).	I&S-Institute Prague Czechoslovakia	26/03-20/06	Interregional programme English	A university 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.
Maintenance of gas and oil transportation networks	Theory and practice of designing oil and gas transportation systems. Operation, problems of operation and maintenance, telemetry and remote control of oil and gas pipelines. Technological instrumentation of oil and gas pipelines. Problems of operation and maintenance of remote control, telemetric and instrumentation systems. Telecommunication within the oil and gas pipeline system. Visits to plants and practical training.	Hungarian Gas and Oil Transportation Company's Educational Centre Siofok Hungary	March/April 6 weeks	Interregional programme English	Engineers and technicians with experience in the field of maintenance of gas and oil transportation networks and related telecommunications.

Maintenance  
industrielle

Organisation de la maintenance, pièces de rechange, diagnostics de maintenance, documentation technique, ateliers de maintenance, disposition à prendre lors de l'achat denouveaux équipements industriels, formation du personnel de maintenance, coûts de budgets de maintenance.

Centre Universitaire  
de Douala  
Cameroun

APRIL - AVRIL - ABRIL

Technology of  
mineral fertilizer  
production

Theoretical part covers lectures and discussions on various subjects of nitrogen and phosphate fertilizers. 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. It is followed by one month in-plant training at nitrogen fertilizer plants in the USSR.

Institute of Nitrogen  
Industry  
USSR Ministry for Mineral  
Fertilizers Production  
Moscow  
Union of Soviet  
Socialist Republics

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

Mars/ avril	Programme national Cameroun  Français	Ingénieurs/techniciens (chef de maintenance, chefs d'exploitation, chef de production, directeurs techniques, chefs d'entreprises).
05/04- 03/07	Interregional programme  English	A university degree (or equivalent) in chemical engineering or chemistry and at least three years of practical experience in a super- visory or managerial capacity in the fertilizer industry.
16/04- 24/06	Español	Pueden participar en este programa candidatos de ambos sexos, que deberán ser graduados universi- tarios o poseer un historial académico equivalente, y tener varios años de experiencia práctica en el campo de la información y/o tecnología, en el funcionamiento de centros de información existentes o en el estable- cimiento 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 économiques et sociales (ESSEC) Université du Cameroun en coopération avec l'Institut d'administration et de gestion de l'Université de Louvain Douala, Cameroun	Avril/mai	Programme régional pour l'Afrique  Français	Etre titulaire 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.
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	April/May	Interregional programme  English	Chemical, mechanical, electrical or relevant branch of engineering degree; one to five years practical experience and employed with cement industry.
Industrial planning	Technical aspects of industrial planning at different levels. Uniform systems of industrial planning on national, sectoral 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	April/May 4 weeks	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.
Machine tool programming and operation	Principles and theory of operation, basic components and operation of NC installations; history and development of NC; coding and controlling media; classification of NC; Computerized Numerical Control (CNC) - theory of operation, comparison with conventional NC; block formats and command functions; training operation programming; milling/drilling/boring operation programming; manual and computer assisted part-programming; organizing for numerical control. Plant visits and study tours foreseen.	State Economic Corporation "Machine Tool Plants", Machine Tool Institute, NV/CAM Metalworking Development Centre, Sofia, Bulgaria	April/May 7 weeks	Interregional programme  English	Production engineers, process planners and intended machine tool operators with knowledge of basic trigonometric functions and co-ordinate geometry.

Design and pattern-making techniques in the shoe and leather goods industries	Traditions and theory of management in leather industry; pattern and creative design; pattern cutting; pattern making; shoe production; leather goods products.	Jesi, Ancona Italy	April/June 12 weeks	Arab and Asian regions English	Instructors in leather training/research institutes or supervisors/designers in manufacturing units of leather products industry having at least three years on-the-job practical experience in leather products industry.
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MAY - MAI - MAYO

Industrial project preparation, evaluation and financing	Outline of project development cycle, market analysis and market capacity. Technical analysis of industrial project. Financial analysis and evaluation (compounding and discounting, cash-flow tables, net present value, internal rate of return and other financial ratios, break-even point, sensitivity analysis) sources of financing. Economic analysis (shadow-price method, value added and effects method, OECD and World Bank method). Elements of investment promotion and implementation.	Central School of Planning and Statistics Warsaw Poland	06/05-21/06	Interregional programme English	University degree in economics, business administration or engineering and at least 2 years of practical experience in project preparation evaluation - English indispensable.
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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	13/05-23/06	Interregional programme English	A university degree (or equivalent) in agricultural or chemical engineering or chemistry and at least three years of practical experience in a supervisory or managerial capacity in the production and formulation of pesticides.
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Metallurgical Industries	The programme in the field of computerized maintenance systems in metallurgy will be the third in a planned series and designed for maintenance managers, planners, engineers and computer specialists in the principles and techniques of computerized maintenance systems.	Institute for Automation and Industrial Management (INORGA) Prague Czechoslovakia	May/June 3 weeks	Interregional programme to be decided English	Degree in metallurgy mechanical, industrial or management engineering, position related to either maintenance or application computer information systems.
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Seminario sobre  
embalaje

Funciones y normalización de  
embalajes y tipos de  
empaquetaduras, costos y  
análisis de valor sobre  
embalajes. Control de calidad.  
Comercio y aspectos administra-  
tivos en la industria del  
embalaje. Cartón ondulado,  
madera, láminas de plástico y  
sus compuestos.

Instituto Italiano de  
Embalaje  
Milan  
Italia

JUNE - JUIN - JUNIO

Utilisation  
industrielle des  
herbes médicinales

Herbes médicinales provenant  
de la flore naturelle ;  
établissement des cartes  
économiques de la flore  
médicinale ; méthodes d'ex-  
traction des principes actifs ;  
contrôle qualitatif des pro-  
duits pharmaceutiques fabriqués  
à partir d'herbes médicinales ;  
l'identification des espèces ;  
la détermination des caractéri-  
stiques physicochimiques des  
huiles essentielles ; partie  
théorique, travaux pratiques  
et visites usines.

ONUDI et le Centre  
Commun ONUDI/ROUMANIE

JULY - JUILLET - JULIO

Introduction of  
environmental  
components into  
training pro-  
grammes

Design and development of a  
methodology for elaborating  
and formulating an appropriate  
curriculum and training  
material on environmental pro-  
blems resulting from industria-  
lization for inclusion in  
training programmes.

United Nations  
Environmental  
Programme  
Vienna  
Austria

Mayo/  
Junio  
5 semanas  
approx

Programma  
interregional  
Español

Cualificaciones  
profesionales con  
responsabilidades  
de alta dirección,  
técnicas o comerciales

Juin/  
Juillet  
5 semaines

Programme  
interrégional  
Français

Titulaires d'un diplôme  
en pharmacie, en chimie,  
en botanique ou agronomie  
avec de l'expérience  
de la recherche-  
développement dans le  
domaine des plantes médi-  
cinales et aromatiques.

July  
2 weeks

Interregional  
programme  
English

Leading representatives  
of training institutions  
in developing and indus-  
trialized countries



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

AUGUST - AOUT - AGOSTO

Iron and steel industry technology

Theory in technological process of equipment, economic planning, management, maintenance. In-plant training in foundry, sintering plant, open hearth plant, rolling mills, refractory maintenance.

Zaporozh-Steel  
Zaporozhye  
Ukrainian Soviet Socialist Republic

Design and manufacturing 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

Environmental assessment and management aspects of air and water pollution from industry

Analysis of air, water and soil pollution and industrial waste. Theoretical instructions and practical exercises in laboratories study visits to purifications plants and environmental control installations.

State University of Ghent  
Ghent  
Belgium

July	Interregional programme English	Mechanical engineering degree, three to five years experience with supervisory responsibilities in maintenance, repair and overhaul of diesel engines.
26/08-25/11	Interregional programme English	Metallurgical, chemical, mechanical engineering degree and directly engaged in one of the production activities. Technical fields of iron and steel industry. Practical experience minimum three years.
August/November	Interregional programme English	Agricultural or mechanical engineering with three to five years practical experience in manufacturing or farm machinery implements and industry supervisory responsibilities.
August/September	Interregional programme English	Degree either in chemistry, biology, geology, or pharmacy with experience and responsibilities related to environmental pollution problems.

Furniture and  
joinery industries

Based on seminars held yearly in Lahti, Finland, this course will cater for the needs of the least developed countries and is intended to give the participants an 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 will be highlighted and the prerequisites for the establishment of this industry in developing countries on a sound basis will be identified.

Lahti  
Finland

SEPTEMBER - SEPTEMBRE

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

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

August  
3 weeks

Interregional  
programme

English

Technical managers or persons holding a similar position in secondary woodprocessing industries (furniture, joinery, etc.) or planners of the wood industry sector and product designers, though the former will be preferred.

- SEPTIEMBRE

04/09-  
20/12

Interregional  
programme

English

A university degree (or equivalent) in electrical or mechanical engineering, with at least three years of practical experience related to electric welding.

ng

04/09-  
09/11

Interregional  
programme

English

Engineers and technicians (or equivalent) having at least three years of practical experience in the field of maintenance and repair of medium/small ships.

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 USSR Ministry of State Purchases, Moscow (with visits to Kiev, Leningrad, Krasnodar, Slavynsk-na-Kubani and Krasnoarmeiskaya) Union of Soviet Socialist Republics

Modern foundry technology

The training programme will cover the following topics: the design of modern foundry processes (including economic and technical aspects); foundry materials, melting and casting technologies, pattern making practice, moulding materials and moulding technology, mechanization and automation of foundry processes, quality control and repair of castings, environmental protection including noise control and other safety and pollution problems.

Foundry Research Institute Kraków Poland

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

10/09- 05/12	Interregional programme  English	Engineers and technicians (a university level degree or equivalent) and at least three years of practical experience in a supervisory or managerial capacity in the rice-processing industry.
14/09- 09/11	Interregional programme  English	Degree in foundry or metallurgy (or equivalent) with at least two years practical experience (preferably in a supervisory position) in at least one of the following fields: moulding sands, moulding technologies, melting technologies, pattern-making practice, casting technologies, mechanization and automatization of foundry processes, quality control.
23/09- 12/10	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 two years of practical experience.

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	September/ October	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.
Small-scale foundry operations for LDCs, land-locked and island countries	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; copper alloys and their melting and casting; aluminium alloys and their melting and casting; 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 Technical Education Faculty Ankara Turkey	September/ November	Interregional programme for LDCs, land-locked and island countries  English	Foundry or metallurgy degree, supervisory or planning functions for operating and establishing small-scale foundries with at least one year of practical experience.
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.	Cement Research and Development Centre Ankara Turkey	September/ November	Interregional programme  English	Chemical, mechanical, electrical or relevant branch of engineering degree; one to five years practical experience and employed with cement industry.
Condition based maintenance and technical diagnostics of machines	Fundamentals of condition based maintenance and technical diagnostics with training in measurement for technical diagnostics; practical applications: rotary machines performance monitoring, components performance monitoring (bearings). Practical in-plant training and study tours.	Institute for Developing Countries Zagreb Yugoslavia	September 10 days	Interregional programme  English	University degree in physical science or engineering (or equivalent) and at least three years practical experience in techniques of maintenance and technical diagnostics.

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'ordinateurs, 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 Nationales des Chemins de Fer Belges (SNCB), 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 Burkina Faso

Basic petrochemicals and appropriate production technologies

Feedstock for basic petrochemical plants (ethylene, polyolefins, aromatics, plastics, fibres and yarns production); automation and instrumentation; maintenance and repairing; corrosion prevention, labour protection, pollution and neutralization methods. In-plant training in basic petrochemical plants.

Joint UNIDO-Romania Centre Blvd. N. Balcescu 16 70121 Bucharest Romania

Iron and steel industry

The analysis and selection of raw materials, appropriate processes and technologies for iron and steel production; hot and cold rolling mill operations; quality control and testing; organization and management of steel plant maintenances.

Eregli Iron and Steel Plant Eregli Turkey



Septembre/ novembre	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.
September/ November	Interregional programme  English	Participants should hold a university or engineer- ing degree in chemical or petrochemical engineering with one to five years' practical experience in petrochemical industry, preferably in the age group of 22 to 35.
September/ November 12 weeks	Interregional programme  English	University degree in chemistry, metallurgy, mechanical or electri- cal engineering (or equivalent) with one to five years practical experience and holding supervisory function.

Management of human resources development for industry	The basic objectives of the programme are to upgrade the knowledge and widen the experience of persons responsible for the planning and co-ordination of training activities in industry in developing countries. Studies of the main topics are complemented by study visits to educational institutions of all levels, round-table discussions, practice orientation, etc.	Institute for the Advanced Training of Managers and Specialists, Ministry of State Purchases Moscow Union of Soviet Socialist Republics	September/ October	Interregional programme  English	University background oriented to technological or economic sciences. At least three years of practical experience in industrial training. Candidates must be responsible for the planning and co-ordination of training activities at regional or sectoral industrial level or advising the policy making organ dealing with industrial training.
Cotton textile industry	Cotton materials and blends weaving and spinning and knitting processes. Theoretical and practical training will also cover quality control, management, repair and maintenance, pollution and energy saving.	Sümerbank (Textile Training Centre) Bursa Turkey	September/ December	Interregional programme  English	Textile, chemical or mechanical engineering degree; two to six years' practical experience holding managerial/supervisory position in weaving, spinning and knitting.
Technologies textiles cotton - 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	Septembre/ Décembre	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
OCTOBER - OCTOBRE - OCTOBRE					
Energy management in the glass industry	Awareness will be created in participants as well as their knowledge broadened as required for the proper management of energy in the glass industry. Problems of energy conservation and efficiency will be explored with also a view to alternative sources of energy available in developing countries. Participants will be encouraged to join in the problem-solving process at the initial stage.	Comitato Nazionale per la Ricerca e per lo Sviluppo dell'Energia Nucleare e delle Energie Alternative (ENEA) Turin Italy	October	Interregional programme  English	Personnel in responsible positions in plant operations, production, maintenance, utility control, or plant design and development in the glass industry.

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	October/ December	Int regional programme  English	Degree in mechanical engineering or engineering degree with at least three 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	October/ November	Interregional programme  English	Chemical, agricultural, mechanical or electrical engineering with at least two years practical experience and presently employed directly in the production of sugar.
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 Novi Sad Yugoslavia	October	Interregional programme  English	Engineering degree with managerial experience in food processing of at least three years.

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

Planification  
industrielle

Le programme couvrira les modules suivants : intérêt d'une planification nationale, cadre institutionnel, planification (prise de décision), instruments de réalisation du plan, mesures correctives, réalisation et suivi du plan, conclusions et recommandations pour les pays en voie de développement.

Ecole centrale de la  
planification industrielle  
Varsovie  
Poland

Programme  
régional pour  
l'Afrique

Français

Cadres provenant d'institutions concernées par la planification industrielle.

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

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.

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

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. 200, rue de Chéra 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 41, rue du Lombard B-1000 Bruxelles Belgique	A arranger 3 mois	Ingénieur civil ou architecte. Français, anglais, néerlandais	-	A arranger
Cement industry	The in-plant training programmes are meant for cement engineers and technologists in various disciplines in order to update their knowledge and to improve their competency.	State Cement Corporation of Pakistan Ltd. Lahore Pakistan	To be arranged 2 weeks - 12 months	Professional qualification. English	-	-
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	2 April 1985 13 weeks	Professional qualification. English	-	To be arranged

BUILDING MATERIALS INDUSTRIES (Cont'd)

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 1LN United Kingdom	Part I 3rd week in September 1985 13 weeks Part II 1st week in January 1985 + 1986 13 weeks	Technical or professional qualification. English	-	1985/86 Part I £5,950 + VAT (provisional) Part II £5,950 + VAT (provisional) Fee includes food and accommodation
<p>CHEMICAL INDUSTRIES INDUSTRIE CHIMIQUE INDUSTRIAS QUIMICAS</p>						
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 Kunststofftechnik Wexstrasse 19-23 A-1200 Vienna Austria	October 2 months	Professional qualification. English	-	To be arranged
Plastics technology and polymer engineering	Applied R + D. 170 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., Ph.D. in science and 2 years in research experience. English, German, French	-	To be arranged

CHEMICAL INDUSTRIES (Cont'd)

Course or seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
Application des matières plastiques dans l'emballage et le conditionnement (y compris les tuyaux)	Les polymères utilisables dans le conditionnement et l'emballage ; leur diverses propriétés chimiques, physiques 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-Stevard B-4000 Liège Belgique	Toute l'année sauf juillet et août 6 mois - 1 ans	Ingénieur chimiste, licencié en sciences pharmaceutiques. Français	-	A arranger
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. 200, rue du Chéra B-4000 Liège Belgique	A arranger 5 mois	Qualifications professionnelles. Français, anglais	-	\$US 5,000
Pharmaceutical technology	Preparation of ampoules and perfusion solutions, ointments, solutions for ophthalmic use. Study of granulation, manufacturing of capsules, tableting. Control of the production of drugs. Planning for production of antibiotics, sulfonamides, antiseptics. Organization 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	-	BF.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 2, place Ste Barbe B-1348 Louvain-la-Neuve Belgique	To be arranged variable	Graduates in chemistry. English, French, Spanish	-	To be arranged

CHEMICAL INDUSTRIES (Cont'd)

Course or seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
Technologie de fabrication 1) des peintures, 2) des peintures utilisées dans le bâtiment et 3) des peintures utilisées dans l'industrie	Formation professionnelle accélérée.	E.S.C.E.P.E.A. Ecole Supérieure du Cuir et des Peintures Encres et Adhésifs 181-203 av. Jean Jaurès F-69007 Lyon France	1) et 2) Début septembre 8 et 4 mois respect. 3) Début janvier 4 mois	Qualifications professionnelles. Français	-	De FF.25,000 à FF.30,000
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 Hohenstaufenring 30-32 D-5000 Cologne 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
Fuels and lubricating oils	A short-term practical demonstration course.	Indian Institute of Petroleum Dehra Dun India	To be arranged 3-4 weeks	Professional qualification. English	-	To be arranged
Polyester fibre technology	Polymer production; fibre extrusion; fibre finishes; filament and staple fibre processing; fibre blends; texturing processes; testing and quality control; colouration; end-uses and markets.	Shirley Institute Didsbury Manchester M20 8RX United Kingdom	May 1985 4 weeks	Professional qualification. English	-	£850



Course or seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
<p><u>ELECTRICAL AND ELECTRONIC INDUSTRIES</u>  <u>INDUSTRIES ELECTRIQUES ET ELECTRONIQUES</u>  <u>INDUSTRIAS ELECTRICAS Y ELECTRONICAS</u></p>						
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 Cologne Federal Republic of Germany	To be arranged About 12-18 months	Professional qualification. German	-	To be arranged
Microelectronics, automation and industrialization	(1) The nature, and likely future orientations, of the microelectronics industry and the pattern of diffusion into downstream manufacturing processes and final products; (2) to assess the impact of these new technologies on specific sectors which are of particular relevance to developing countries; (3) to illuminate methodologies whereby this impact can be judged; (4) the implications which these technological developments have on the formulation of industrial policy.	Institute of Development Studies University of Sussex Falmer Brighton BN1 9RE United Kingdom	4 November 1985 6 weeks	Professional qualification. English	-	£190 per week (subject to review)
<p><u>FOOD PROCESSING INDUSTRIES</u>  <u>INDUSTRIE ALIMENTAIRE</u>  <u>INDUSTRIAS ALIMENTARIAS</u></p>						
Marine fishery Pêche maritime	Modern fishing techniques and equipments; planning and management of marine resources; fish industry technologies and quality control; fish marketing organization; production and processing systems; pollution control and energy conservation; transport, distribution and export; research establishments, etc.	International Training and Contact (I.T.C.) Formation et Contact International (F.C.I.) a.s.b.l. Velodroomstr. 68 B-2600 Antwerpen Belgium	13 March + 11 September 1985 3 months	Professional qualification. English or French alternatively	-	To be arranged

FOOD PROCESSING INDUSTRIES (Cont'd)

Course or seminar    General description

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<p>Industrie sucrière de la betterave et technologie de la fabrication du sucre à partir de la betterave sucrière</p>	<p>Au cours de la campagne sucrière, un 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 ; laboratoires d'analyses de contrôle de la fabrication du sucre ; laboratoire de la recherche appliqués ; différentes étapes de la fabrication en sucrerie et raffinerie.</p>
<p>Microbiologie des aliments</p>	<p>Microbiologie des boissons (eaux, bière, jus de fruits), des coquillages et des poissons ; microbiologie des laits et des produits laitiers ; étude systématique des principaux micro-organismes des denrées alimentaires ; influence des traitements sur la microbiologie ; techniques d'analyses, de recherche et de dénombrement ; cours et travaux pratiques.</p>
<p>Techno managerial programme for biscuit and bakery industry</p>	<p>To gain insight into technical and managerial aspects of biscuit and bakery industry; to stimulate thinking on the application of modern managerial techniques in the existing and prospective biscuit and bakery industrial units; to understand the scope for the range of products that can be promoted in biscuit and</p>
<p>Food production</p>	<p>The course will cover the practical and theoretical aspects of processing Indonesian foods (kecap, tempe, tauco, tape, tahu, etc.).</p>
<p>Organización de pequeña y mediana empresa alimentaria</p>	<p>Planeamiento. Proyectos de instalaciones y tecnologías. Management y organización del personal. Programación y estrategias. Manejo de las empresas. Aspectos financieros y contables. Aspectos complementarios. Metodología didáctica.</p>

Organizer; Venue	Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
S.A. Société Sucrière d'Etudes et de Conseils Aandorenstraat 1 B-3300 Tienen Tirlemont Belgique	Octobre à décembre (cette période correspond à la campagne sucrière) variable	Diplôme universitaire ou équivalent. Français	-	A arranger
Institut Pasteur de Lille B.P. 245 15, rue Camille Guérin F-59019 Lille Cedex France	Avril-octobre 1985 et 1986 1-4 semaines	Qualifications professionnelles. Français	-	A fixer
Small Industry Extension Training (SIET) Institute Yousufguda Hyderabad 500 045 India	October 1985 8 weeks	Professional qualification. English	-	\$US 2,320
d bakery industry; and to develop skills for preparation of feasibility reports.				
Institute for R + D of Agro-based Industries (IRDABI) Jl.Ir.H. Juanda 5-9 Bogor, Java Indonesia	To be arranged 1-2 months	Professional qualification. Indonesian and/or English	-	To be arranged
CORI SpA, Centro Studi Agricoli Borgo a Mozzano Abbadia S. Salvatore I-55060 Mutigliano Lucca Italy	28 enero y 23 septiem- bre 1985 12 semanas	Calificación profesional. Español	-	A convenir

FOOD PROCESSING INDUSTRIES (Cont'd)

Course or seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
Fish technology and quality control	Fish processing technology, fish handling, salting, drying, freezing and canning. Quality control. Prevention of fish post-harvest losses. Extension.	Fisheries Department Food and Agriculture Organization (FAO) Via delle Terme di Caracalla I-00100 Rome Italy	1985 6 weeks to be determined	Participants should have a university degree or diploma and be working in a government or private institution dealing with fish utilization. Participants to be nominated by government. Course in English reserved for Asian countries. Same course in French reserved for West African countries	-	-
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 I-00187 Rome Italy (Rome and other towns in Italy)	23 January 1985 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 I-44100 Ferrara Italy	February 3 months	University degree in engineering, chemistry or agriculture. Italian	-	To be arranged
Industrie sucrière	Cours sur le contrôle chimique des sucreries comprenant une introduction à la production du sucre, l'organisation d'une sucrerie, le rôle du chimiste, les buts et la base du contrôle chimique, définition des termes, la pesée, la mesure de l'eau des condenseurs, les balances; entretien et étalonnage, l'échantillonnage, l'organisation d'un laboratoire de sucrerie, préparation des divers bulletins, inventaire des produits sucrés, analyses des divers produits d'une sucrerie, analyses spéciales, contrôle de la qualité des sucres, méthodes de paiement de la canne des planteurs, les principes du management, les sous-produits. Cours théoriques et pratiques avec stages dans divers laboratoires.	Centre Régional de Formation Sucrière pour l'Afrique avec l'Institut de Recherches de l'Industrie Sucrière de Maurice comme Agent d'Execution Réduit Maurice	Mai 3 mois	Licence ou diplôme dans un sujet approprié. Français	Fin mars	US\$ 2,500

FOOD PROCESSING INDUSTRIES (Cont'd)

Course or seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
Sugar industry (sugar cane)	Course on the Chemical Control of Sugar Factories covering outline of sugar manufacturing processes, factory organization, duties of chemist, purpose of chemical control, basis of factory control, definition of terms, methods of weighing, scales, condenser water, sampling, sugar laboratory organization, calculation of reports, stock-taking, practical sugar analysis, analysis of all sugar factory products, special analyses, quality control of sugar, planter's cane payment systems, principles of management, by-products. Theoretical, analytical and practical at various factory laboratories.	Regional Sugarcane Training Centre for Africa with Mauritius Sugar Industry Research Institute as Executing Agency Réduit Mauritius	September 3 months	University degree. English	End July	US\$ 2,500
Food industry	Courses on: food contaminant analysis; food microbiology and hygiene; meat processing; fish handling and preservation; cereal technology.	Division for Nutrition and Food Research TNO Utrechtseweg 48 P.O. Box 360 3700 AJ Zeist Netherlands	To be arranged 3-6 weeks	Professional qualification. English	-	To be arranged
Cereal chemistry	Training in 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	To be arranged	Professional qualification. Dutch, English or German	-	Hfl. 5,500 per month
Ciencia y tecnología de alimentos	Fundamentos científicos de la tecnología de alimentos, de sus procesos industriales, de la técnicas de control de fabricación y de los problemas específicos de las principales industrias de alimentación. Comprende cuatro asignaturas generales y una de las asignaturas de tecnología específica, con clases teóricas y prácticas, sesiones de seminario y visitas a fábricas. Además y con objeto de estimular la capacidad creadora y espíritu crítico del alumno cada uno de ellos desarrollará a lo largo del curso, un trabajo de investigación sobre un tema de interés en tecnología de alimentos. Las asignaturas que cursan son las siguientes: química de los alimentos; tecnología de la conservación de alimentos; control analítico y de calidad de alimentos; control microbiológico e higiene en la industria de alimentos. Tecnologías específicas: industrialización de frutas y hortalizas; tecnología postcosecha de los cereales.	Instituto de Agroquímica y Tecnología de Alimentos Jaime Roig 11 Valencia España	Septiembre 10 meses	Título superior por una Universidad o escuela técnica superior. Español	Julio	65,000 Ptas (15,000 Ptas alumno, gasto por trabajo experimental)

FOOD PROCESSING INDUSTRIES (Cont'd)

Course or seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
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 1985 15 semanas	Poseer la formación básica que supone haber cursado estudios de escuelas técnicas de grado medio. Español	Octubre 1985	60,000 Ptas
Sugar technology	Lectures, practical work and field training covering all processes in sugar technology (cane sugar).	Department of Chemical Engineering University of Khartoum Khartoum Sudan	2 calendar years	Professional qualification. English	-	£1,300
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 3-6 months	Basic education in engineering, technology, bio-chemistry and/or microbiology. Practice in meat plant operations. English or German	-	SKr.6,000 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 management; technical drawing.	The Swiss School of Milling Tellstrasse 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.1,800
Beet sugar technology	The course will cover the whole process i.e. beet storage, juice production, juice purification, evaporation, crystallization, heat economy, microbiological control, pollution control, process control, both theoretically and practically.	Turkish Sugar Co. Sugar Institute Technological Research Division Etimesgut Turkey	Early October 7 weeks	Engineering experience. English	-	To be arranged

FOOD PROCESSING INDUSTRIES (Cont'd)

Course or seminar	General description	Organizer; Venue
Beet and cane sugar production	Practical and theoretical courses in all aspects of the production of sugar from beet and cane including supervisory skills, industrial safety and management techniques.	BSD Limited (British Sugar plc) P.O. Box 26 Oundle Road Peterborough PE2 9QU United Kingdom
Beet and cane sugar production and technology	Short courses on: process technology; new developments in sugar industry; welding; training of electrical and mechanical engineers for sugar factory; process instrumentation.	BSD Limited (British Sugar plc) P.O. Box 26 Oundle Road Peterborough PE2 9QU United Kingdom
Sugar beet and sugar cane	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 maintenance.	BSD Limited (British Sugar plc) P.O. Box 26 Oundle Road Peterborough PE2 9QU United Kingdom
Basic food microbiology	The principles of food microbiology with particular reference to quality control.	Tropical Development and Research Institute 127 Clerkenwell Road London EC1R 5DB United Kingdom
Post-harvest technology of fruits, vegetables and root crops	The principles of perishable crop handling and their application to commercial operation.	Tropical Development and Research Institute 127 Clerkenwell Road London EC1R 5DB United Kingdom

Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
September-December (operational period of beet sugar factories in the UK). Up to 4 months	Professional qualification. English	-	To be arranged
Throughout year 3 days-10 months	Professional qualification. English	-	To be arranged
Throughout year 3 days-10 months	Professional qualification. English	-	To be arranged
1 April 1985 12 weeks	Professional qualification. English	-	On application
12 April 1985 13-15 weeks	Degree or equivalent in biological science, agriculture or horticulture or several years' experience of produce handling. English	-	To be arranged



FOOD PROCESSING INDUSTRIES (Cont'd)

Course or seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
Storage of durable agricultural products in the tropics	Storage of cereals, grain, legumes, oil-seeds, 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 Development and Research Institute 127 Clerkenwell Road London, EC1R 5DB United Kingdom (Slough, near London)	22 February and 30 August 1985 4-6 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

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.F.O.P 1b av. Général Michel B-6000 Charleroi Belgique	A arranger 1-6 mois	Qualifications professionnelles. Français, anglais	-	A arranger
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LEATHER AND LEATHER PRODUCTS INDUSTRIES  
INDUSTRIE DU CUIR ET DES ARTICLES EN CUIR  
INDUSTRIAS DEL CUERO Y DE LOS PRODUCTOS DE CUERO

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 rivière ; 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 Gloesmer 6 B-4020 Liège Belgique	Septembre 9 mois	Qualifications professionnelles. Français	25 juin	BF.80,000
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LEATHER AND LEATHER PRODUCTS INDUSTRIES (Cont'd)

Course or seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
La fabrication du cuir, du brut à l'entrée au finissage	Technologie et applications de fabrication du brut à l'entrée au finissage (stage mi-fini). Bovins, ovins, caprins. Tannages chrome et végétal; retannages. Teintures, nourritures et sèches.	Ecole Supérieure du Cuir et des Peintures Encres et Adhésifs (ex Ecole Française de Tannerie) 181-203 Av. Jean Jaurès F-69007 Lyon France	Début septembre 14 semaines	Qualifications professionnelles. Français	-	FF.20,000
Le finissage de cuir	Technologie et applications; matières premières; construction des finissages, nuançages; finissages des fleurs corrigées, des pleines fleurs satinées, des pleines fleurs lissées.	Ecole Supérieure du Cuir et des Peintures Encres et Adhésifs (ex Ecole Française de Tannerie) 181-203 Av. Jean Jaurès F-69007 Lyon France	Début janvier 6 semaines	Qualifications professionnelles. Français	-	FF.15,200
Technologie du cuir	Formation professionnelle de niveau moyen destinée à des responsables d'atelier qui cherchant à perfectionner leurs connaissances pratiques et à acquérir les bases théoriques du métier de tanneur.	Ecole Supérieure du Cuir et des Peintures Encres et Adhésifs (ex Ecole Française de Tannerie) 181-203 Av. Jean Jaurès F-69007 Lyon France	Début septembre 9 mois	Qualifications professionnelles. Français	-	FF.30,000
Leather goods manufacture	Pattern cutting and design development; fabrication of leather goods using hand tools and simple machines; fabrication of leather goods using modern machines and improved tools; training on various leather goods machines including shaving machines; training on leather craftwork; theoretical classes on leathers, materials, tools, organization and trade practices and cost estimates. The Institute organizes other courses in leather technology from 3 to 12 months.	Central Leather Research Institute (CLRI) Adyar, Madras 600 020, India	March 1985 48 weeks	University entrance. English	-	Rs.2,000 per month

LEATHER AND LEATHER PRODUCTS INDUSTRIES (Cont'd)

Course or seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
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 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 5141 Er Waalwijk Netherlands	April and September 1985 and 1986 13 weeks	Professional qualification. English	-	To be arranged
Leather garments manufacturing technology	This course provides practical and critical knowledge in manufacturing technology of leather garments.	Leather Products Development Centre IV-D/14-7 Raza Apartments Hakim Ibn-e-Sina Rd P.O. Box 2375 Nazimabad, Karachi-18 Pakistan	15 July 1 year	Professional qualification. English	-	Rs.1,500 per month
Leather goods manufacturing technology	This course provides practical and critical knowledge in manufacturing technology of leather goods to fresh entrants and technicians.	Leather Products Development Centre IV-D/14-7 Raza Apartments Hakim Ibn-e-Sina Rd P.O. Box 2375 Nazimabad, Karachi-18 Pakistan	15 July 1 year	Professional qualification. English	-	Rs.1,500 per month

LEATHER AND LEATHER PRODUCTS INDUSTRIES

Course or seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
Basic leather production techniques	Introduction to leather manufacture and the opportunity for course participants to make a number of leathers according to their particular interests e.g. shoe upper leathers; clothing leathers; vegetable tanned leathers; hair on leathers. Chemical suppliers will present information on new products available.	National Leather-sellers Centre Nene College Moulton Park Campus Northampton NN2 7AL United Kingdom	8 July 1985 and 7 July 1986 4 weeks	Professional qualification. English	-	£650 (1985) £750 (1986)
Physical testing and chemical analysis of leathers, chemicals and process liquors	An introduction to testing and analysis in a leather control laboratory based on official methods of analysis of the International Union of Leather Technologists and Chemists Societies. Course will cover sampling, sample preparation, physical and fastness tests on selected leathers. Analysis of chromium and vegetable tanned leathers and chromium and vegetable tanning materials. Analysis of waste tanning liquors.	National Leather-sellers Centre Nene College Moulton Park Campus Northampton NN2 7AL United Kingdom	7 July 1986 4 weeks	Professional qualification. English	-	£750
Tannery effluent treatment and the recycling of process liquors	The course deals with the treatment of tannery waste liquors and current legislation for disposal in various countries. Course participants will have the opportunity to analyse effluents and to carry out small-scale experiments in aeration, coagulation, filtration and recycling of lime sulphide and chrome liquors.	National Leather-sellers Centre Nene College Moulton Park Campus Northampton NN2 7AL United Kingdom	8 July 1985 4 weeks	Professional qualification. English	-	£650

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

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.	Spoorvegmateriel en Metaalconstructies, BN Vaartdijkstraat 5 B-8200 Brugge Belgique	A arranger 3 mois approx.	Qualifications professionnelles. Français, anglais ou néerlandais	-	A arranger
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MECHANICAL AND METALWORKING INDUSTRIES (Cont'd)

Course or seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
Mécanique générale	Large éventail de sujets dans le domaine de la mécanique générale.	Spoorvegmateriel en Metaalconstructies Vaartdijkstraat 5 B-8200 Brugge Belgique	A fixer 3 mois en moyenne	Qualifications professionnelles Français, anglais ou néerlandais	-	A arranger
Shipbuilding and advanced hydrodynamics	Advanced hydrodynamics theory and applications in shipbuilding and hydraulic machines; advanced methods for computer-aided ship design, development and use of computers in shipbuilding; advanced methods and investigations on theoretical and experimental ship hydrodynamics; statistical estimation of the loads acting on the ship structures and their design.	Bulgarian Ship Hydrodynamics Centre in co-operation with other organizations Varna 9003 Bulgaria	Throughout year Variable 2 weeks-10 months	Professional qualification. English, Russian or French	-	To be arranged
Welding technology	Upgrading skills and knowledge of welding method. Arc and gas welding, shield gas welding (CO <sub>2</sub> and Argon), joining techniques in maintenance and repairing brazing, soldering and inspection of welds.	Engineering and Industrial Design Development Centre Cairo Egypt	February 1985 and 1986 4 weeks	Professional qualification. English	-	\$US750
La mécanisation agricole pour les gérants de parcs de machines agricoles	Classification et description des principales machines agricoles. Considérations et évaluations économiques sur le choix, l'achat, la gestion, le financement et les charges d'exploitation d'un parc de machines agricoles. Plan de mécanisation de l'exploitation; calendrier de travail. Eléments de mécanique agricole. La mécanisation des opérations culturales. Exercices de conduite sur route et sur champ au cours des divers travaux agricoles. Gestion du personnel.	CORI SpA, Centro Studi Agricoli Borgo a Mozzano Abbadia S. Salvatore I-55060 Mutigliano Lucca Italie	25 février 1985 1/4 semaines	Qualifications professionnelles. Français	-	A fixer
Automobile engineering	Advanced practical and diagnostic training involving mechanical and electrical units and components used on motor vehicles and plant. Topics would include: methods of repair and rebuilding of engines and transmission systems; engine and vehicle testing; electrical systems and associated components. Fuel systems servicing and readjustment.	Loughborough Technical College Department of Mechanical Engineering and Construction Radmoor Loughborough Leicestershire LE11 3BT United Kingdom	To be arranged 8 weeks	Professional qualification. English	-	To be arranged

## MECHANICAL AND METALWORKING INDUSTRIES (Cont'd)

Course or seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
Fabrication and welding	Practical training involving manufacturing processes, manual metallic electrical arc, TIG, MIG and CO2 welding.	Loughborough Technical College Department of Mechanical Engineering and Construction Radmoor Loughborough Leicestershire LE11 3BT United Kingdom	September and January 10 weeks	Professional qualification. English	-	To be arranged
Shipbuilding, ship repairs, etc.	In addition to shipbuilding and ship repairs, the Organization can arrange training programmes in port operations, marine engineering and electronics, production planning and control.	International Maritime Organization (IMO) 4 Albert Embankment London SE1 7SR United Kingdom	To be arranged	Professional qualification. English, French, Spanish	-	To be arranged
Welding technology and inspection	Design, metallurgical processes and inspection, aspects of welds.	Scottish School of Non-destructive Testing Paisley College High Street Paisley PA1 2BE United Kingdom	Throughout year 2-4 weeks	Professional qualification. English	-	£290 (2 weeks) £490 (4 weeks)
<u>METALLURGICAL INDUSTRIES</u> <u>INDUSTRIE METALLURGIQUE</u> <u>INDUSTRIAS METALURGICAS</u>						
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 Veneto 89 Rome Italy (Rome and other towns in Italy)	23 January 1985 5 months	Advanced technical education or university degree and 5 years experience. Italian, French, English, Spanish	-	To be arranged

METALLURGICAL INDUSTRIES (Cont'd)

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
Foundry materials and technologies	Scientific-research works and choice of foundry materials. Determination of possibilities of using local raw materials. Review and choice of foundry technologies adjusted to local conditions. Melting of ferrous and non-ferrous metal alloys; methods for improvement. Moulding and final inspection. Economics of foundry	Foundry Research Institute (FRI) Zakopianska Street 73 P1-30-418 Cracow Poland	To be arranged	Professional qualification. English, French or German	-	To be arranged
Quality control of foundry moulding materials and sands	Characteristics of moulding materials and their classification. Methods of physical-chemical and technological tests of moulding materials on the common and special-purpose apparatus; interpretation of results. Criteria for the choice of materials for a given moulding technology. Casting defects caused by moulding materials.	Foundry Research Institute (FRI) Zakopianska Str. 73 P1-30-418 Cracow Poland	To be arranged	Professional qualification. English, French or German	-	To be arranged

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

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 15, rue Picard B-1020 Bruxelles Belgique	A fixer 3 mois en moyenne	Degré universitaire Français ou anglais	-	A arranger
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PACKAGING INDUSTRIES (Cont'd)

Course or seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
Emballage et conditionnement	Les lignes fondamentales de ce cours consistent en une série d'exposés sur la technologie de l'emballage et les caractéristiques des matériaux mis en oeuvre ; de tables rondes et travaux de groupe avec les professionnels de l'emballage ; work-shop sur des cas précis et analyse des aspects économiques et de marketing (coût, investissement, choix des matériaux, récupération, recyclage) ; visites de laboratoires et d'entreprises, étude de cas et démonstrations ; participation aux expositions internationales et remise des trois tomes du Manuel de l'Emballage.	Institut Belge de l'Emballage 15, rue Picard B-1020 Bruxelles Belgique (avec les instituts de design industriel, contrôle de qualité, marketing)	A fixer 3 mois en moyenne	Qualifications professionnelles. Français	-	A convenir
Les investissements dans l'industrie de l'emballage et du conditionnement pour les PVD	Séminaire organisé avec les producteurs des machines et matériaux, destiné aux industriels producteurs d'emballages de distribution de produits alimentaires ou emballages de contact. Les matériaux discutés seront les : emballages en métal (alu et fer) ; emballages en plastique rigide et souple ; emballages complexes y compris les techniques et technologies pour la fabrication des boîtes, bouteilles, barquettes, bidons, e.a. ainsi que les prescriptions légales et sanitaires. La séminaire sera complété par une visite à une exposition internationale de machines et systèmes d'emballage.	Institut Belge de l'Emballage 15, rue Picard B-1020 Bruxelles Belgique	A fixer 2 semaines	Qualifications professionnelles. Français	-	A convenir
Packaging	All branches of packaging including in-laboratory training.	Indian Institute of Packaging E-2MIDC Area Chakala Andheri (East) Bombay 400 093 India	Throughout year 1 day- 2 years	Professional qualification. English	-	To be arranged
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.	PIRA - The UK Technical Centre for the Packaging Industries Randalls Road Leatherhead Surrey KT22 7RU United Kingdom	To be decided 2-6 weeks on average	Professional qualification. English	-	To be arranged



Course or seminar    General description

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Offset  
printing

Training courses specially designed for developing countries.

Photo composing

Training courses specially designed for developing countries.

Reproduction

Training courses specially organized for developing countries.

Printing  
industry

Courses on electronic composition (using the latest equipment); colour reproduction and platemaking; microcomputers for printers; bar coding systems; basics of printing and finishing; paper and film assembly; quality control; sheet fed lithography; web offset newspapers, electronic publishing, non-impact systems.

Organizer; Venue	Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
<u>PRINTING INDUSTRIES</u> <u>INDUSTRIES GRAPHIQUES</u> <u>INDUSTRIAS GRAFICAS</u>				
Printpromotion GmbH P.O. Box 71 01 09 D-6000 Frankfurt 71 Federal Republic of Germany	August 11 months	Basic knowledge of printing. English	-	To be arranged
Printpromotion GmbH P.O. Box 71 01 09 D-6000 Frankfurt 71 Federal Republic of Germany	Spring 5 months	Basic knowledge of composing. English	-	To be arranged
Printpromotion GmbH P.O. Box 71 01 09 D-6000 Frankfurt 71 Federal Republic of Germany	August 11 months	Basic knowledge of photography. English	-	To be arranged
PIRA - The UK Centre for Printing and Information Technology Randalls Road Leatherhead Surrey KT22 7RU United Kingdom	To be arranged 1-4 weeks on average	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
<p><u>PULP AND PAPER INDUSTRIES</u>  <u>INDUSTRIE DE LA PATE A PAPIER ET DU PAPIER</u>  <u>INDUSTRIAS DE LA CELULOSA Y EL PAPEL</u></p>						
Pulpa y papel	Recursos fibrosos y tipos de maderas; control de calidad de la materia prima, del proceso y producto terminado; procesos químicos para la producción de pastas de celulosa; proceso de alto rendimiento para la producción de pastas; blanqueo de pastas celulósicas; fabricación del papel; tratamiento de efluentes; generación y economía de energía en la industria de la celulosa y el papel; manutención y corrosión.	Instituto de Pesquisas Tecnológicas do Estado de Sao Paulo S/A - IPT P.O. Box 7141 01000 Sao Paulo, SP Brazil	1 marzo 1985 5.5 meses	Técnicos de nivel universitario que trabajan en la industria de la pulpa y el papel. Portugues/español	-	A convenir
Pulp, paper and board technology	Pulping of 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.	PIRA, Paper and Board Division Randalls Road Leatherhead Surrey KT22 7UR United Kingdom	To be arranged 2-6 weeks on average	Professional qualification. English	-	To be arranged
<p><u>TEXTILE INDUSTRIES</u>  <u>INDUSTRIE TEXTILE</u>  <u>INDUSTRIAS TEXTILES</u></p>						
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 (CELAC) Zoning de Petit Rechain 694, avenue du Parc B-4655 Chaineux Verviers Belgique	Toute l'année sauf juillet et août A fixer	Qualifications professionnelles. Français	-	BF.20,000 par mois

TEXTILE INDUSTRIES (Cont'd)

Course or seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
Textiles	Méetrologie du 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.	Centexbel 24, rue Montoyer 1040 Bruxelles Belgique	Toute l'année sauf juillet et août 3-6 mois	Qualifications professionnelles. Français, néerlandais	-	A arranger
Textiles	The sizing of spun yarns; card clothing: how to gain the maximum efficiency from metallic card clothing; preparation and weaving of cotton and blended yarns; wet processing of textiles; garment technology; testing methods and testing of fibres, yarns, fabrics, non-woven carpets and quality assurance.	Fibre Research Institute TNO P.O. Box 110 2600 AC Delft Netherlands	To be arranged 4 days - 3 months	Professional qualification. English or German	-	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 7600 GD Almelo Netherlands	Throughout year (except July) 4-12 weeks	Graduate of technical school. English/German	-	To be arranged
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 raining; 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.E.O. "De Maere" P.O. Box 1075 7500 BB Enschede Netherlands	September 4-5 months	Production managers and technical staff; minimum secondary level schooling, 2 years' experience in textile industry. English	July	To be arranged
Textiles	Short courses on: dyeing and printing polyester and polyester cellulose blends; quality control and testing in wet processing; basic work study; production planning and control.	Textile Industry Research and Development Centre (TIRDC) Moulvi Tamizuddin Ahmad Khan Rd Karachi No. 1 Pakistan	To be arranged 6-18 days	Professional qualification. English	-	-

TEXTILE INDUSTRIES (Cont'd)

Course or seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
Polymer evaluation	The course is designed to produce graduates with a thorough knowledge of polymers and the ability to assess their performance and value. As well as evaluation, students take classes in polymer 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
Polymer science and technology	A short post-experience course designed to enable technologists in the polymer industry to obtain up-to-date advanced training in polymer 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 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	July 1985 6 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	February 1984	To be arranged
Cotton knitting: recent developments in technology and quality control	Statistics and computing; general fibre technology; testing and preparation of cotton yarns for knitting; range of knitted fabrics; knitting technology; process control during knitting; fabric finishing; evaluation of end product; manufacture of garments knitted from cotton fabrics; garment testing; fabric and garment faults; quality control laboratory.	International Institute for Cotton Kingston Road Didsbury Manchester M20 8RD United Kingdom (School of Textile and Knitwear Technology of the Leicester Polytechnic)	May 1985 6 weeks	Professional qualification. English	March 1985	£575-£675

TEXTILE INDUSTRIES (Cont'd)

Course or seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
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 1985 4 weeks	A sound general education at least up to university entrance level; industrial experience in the textile industry. English	April 1985	£600-£650
The sizing and weaving of cotton yarns	Basic statistics; general fibre technology; basic principles of yarn preparation and weaving; theory and practice of warp sizing - sizing agents, size mixes and preparation, sizing machines; weaving technology - factors influencing the choice of ancillary equipment for the loom, techniques to use in warp gaiting, control of weft, choice of drawing-in and denting; type of selvage construction; techniques of weaving densely set warps; fault identification; fault prevention and correction; testing and quality control.	International Institute for Cotton Kingston Road Didsbury Manchester M20 8RD United Kingdom (Bolton Institute of Higher Education)	April 1985 8 weeks	Professional qualification. English	February 1985	£800-£850
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	April 1985 8 weeks	A sound general education, preferably up to university entrance level; some practical experience in wet processing of textiles is essential. English	February 1985	£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	Mid-June 1985 6 weeks	Professional qualification. English	-	£850

Course or seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
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. Review of new yarn production systems.	Shirley Institute Didsbury Manchester M20 8RX United Kingdom	April 1985 4 week	Professional qualification. English	-	£850
Textile technology	Introductory, intermediate and advanced courses on cotton and man-made fibres, yarns and fabrics; textile processes and machinery for yarn and fabric (woven, knitted, non-woven) 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

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 Juin 1 B-5800 Gembloux Belgique	Toute l'année sauf juillet à septembre 2 mois	Qualifications professionnelles. Français	-	BF.15,000 par mois
Wood working and processing	Wood working: sawmills, veneering and plywood factories, wood fibre and wood fibre board factories; wood processing: industrial production of wood furniture, cabinet making, building joinery, including wood construction elements.	Carl Duisberg-Gesellschaft and Zentralstelle für Arbeitsvermittlung der Bundesanstalt für Arbeit Hohenstaufenring 30-32 D-5000 Cologne Federal Republic of Germany	To be arranged 12-18 months including language training	Executives with completed training and practical experience. German	-	To be arranged

WOOD PROCESSING AND WOOD PRODUCTS INDUSTRIES (Cont'd)

Course or seminar	General description	Organizer; Venue
Timber technology: timber engineering and wood protection	Timber technology; mechanical properties of timber; structural design of solid and glued-laminated beams and columns; structural timber joints; wood-based panels; timber in building; protection by design; protection against natural effects; followed by options in either timber engineering or wood protection.	Department of Civil Engineering and Department of Pure and Applied Biology Imperial College University of London London SW7 2BU United Kingdom
Timber studies	All aspects of timber technology; management; marketing; specialization modules available in a wide range of subjects.	School of Art and Design, Furniture and Timber Buckinghamshire College of Higher Education High Wycombe, Buckinghamshire United Kingdom



Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
October 1985 12 months	Degree or appropriate relevant experience. English	May 1985	£4,475
September 1985 10 months	Professional qualification. English	-	£3,400

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

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
Computers and their use	Real-time programming for micro and mini-computers; microprocessor programming - Intel, Motorola; microprocessor technics; digital measuring devices; electrical power measuring devices (watt-hour meters); process control instruments; reliability of process control and measuring instruments.	Institute for Instrument Design Blvd. "Lenin" 7th km Sofia 1184 Bulgaria	1 May and 1 September 1985 1 1/2-3 months	Professional qualification. English, Russian	-	To be arranged
Computer-aided design	Computer-aided design system; hardware; basic system software; application software.	The State Committee for Science and Technical Progress CAD Scientific and Research Laboratory, 55A Chapaev Street, Sofia 1574, Bulgaria	24 March 1986 6 weeks	Professional qualification. English	-	US\$815
Interactive graphic system	Basic principles of the computer graphics; application software; interaction; structure, description and functions of the two-dimensional interactive graphic system.	The State Committee for Science and Technical Progress CAD Scientific and Research Laboratory, 55A Chapaev Street, Sofia 1574, Bulgaria	26 May 1986 3 weeks	Professional qualification. English	-	US\$460
Automation	Integrated systems for complex automation in a process industry (petrochemical, chemical, pulp and paper biochemical).	"Systematics" Joint Venture of the Ministry of Chemical Industry and Honeywell Inc., Blvd. A. Tolstoy, 101 Sofia, Bulgaria	25 March 1986 3 weeks	Professional qualification. English, Russian	-	US\$540
Automatic process control	Pneumatics, oil hydraulics, mechanization, electrical and electronic controls.	Central Institute of Tool Design Balanagar Hyderabad 500 037 (A.P.) India	January 1985 4 weeks	Diploma in engineering and work experience. English	October 1984	\$US 800

AUTOMATION AND DATA PROCESSING (Cont'd)

Course or seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
Information storage and retrieval system	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	October 8 weeks	University degree. English	-	\$US 2,320
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 analyse 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 an 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 I-00187 Rome Italy (Rome and other towns in Italy)	23 January 1985 5 months	Professional qualification. English, French, Spanish, Italian	-	To be arranged
Computer technologies and applications	This course is intended to provide quick, but thorough understanding of computer technologies and methods, which currently are becoming increasingly important in various fields of computer applications. Major topics: computer graphics and CAD, and digital image processing of remote sensing data.	Asia Electronics Union 1-4-2 Uchisaicho Chiyoda-ku Tokyo 100 and Kanazawa Institute of Technology 7-1 Ogigaoka Nonoichimachi Ishikawa 921 Japan	September 1985 To be arranged	Professional qualification. English	-	US\$3,700
Computer use in business operations	An intensive instruction module in the essentials of computer programming, systems analysis and specific software designed to solve major problems in accounting, finance, planning, marketing, production and quality control.	International Centre for Quality and Management Sciences P.O. Box 2082 3000 CB Rotterdam Netherlands	March 1985 and 1986 2 months	Professional qualification. English	-	Dfl.6,000

AUTOMATION AND DATA PROCESSING (Cont'd)

Course or seminar	General description
Information and data processing systems	Courses covering main fields of information systems and training of system analysts.
Computer application development	Training in the development of computer programmes and applications using software packages. Introduction to EDP.
Computer applications and development	Short courses on microcomputer appreciation; database management systems; word and data processing; financial modelling; programming; management information systems; computer hardware/software; evaluation, selection, and systems development, with particular emphasis on Third World agriculture and rural development.
Computing	The aim of this course is to provide an introduction to computing for potential users with little or no previous experience.
Computing strategy	This course is aimed at executives who have been directly involved in computerization and who now wish to develop their knowledge of more up-to-date systems.

Organizer; Venue	Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
CEPECA-International Centre for Management Development and Electronic Data Processing and Consulting Centre Otopeni Soseaua Odai No. 20 Bucharest Romania	March, July, September & December 1985 and 1986 4-10 weeks	Professional qualification. English and French	-	US\$450 per week (Accommodation and meals included)
Regional Computer Center Asian Institute of Technology P.O. Box 2754 Bangkok 10501 Thailand	January, May and September 4 months	Professional qualification. English	-	To be arranged
Computer and Development Department MASDAR Technology Limited MASDAR House 141 Nine Mile Ride Finchampstead Wokingham Berkshire RG11 4HY United Kingdom	Throughout year Various	Professional qualification. English	-	To be arranged
G.A.B. Edwards and Associates Ltd. 38 Station Road Heaton Mersey Stockport United Kingdom	Monthly 12 weeks	Graduate level. English	-	To be arranged
G.A.B. Edwards and Associates Ltd. 38 Station Road Heaton Mersey Stockport United Kingdom	Monthly 12 weeks	Professional qualification. English	-	To be arranged

AUTOMATION AND DATA PROCESSING (Cont'd)

Course or seminar    General description

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Introduction  
to computers

This short course is suitable for senior employees with little or no experience of computers. The aim is to show how computers may help in their own circumstances.

Analogue elec-  
tronics, com-  
puters, and  
industrial  
instrumentation

Short courses on various special fields in computer science.

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.

Modern energy

Energy systems for developing countries, energy conservation - renewable energy resources - energy supply - economics of energy - materials recycling.

Energy economy  
and technology

The segments composing the energy sector; the analysis of the role of the various energy sources in the national energy balance, in the framework of the Brazilian energy policies; the instruments for planning future alternatives for actions in the sector, based on the understanding of its behaviour in a situation of economical crisis, and in comparison with the world perspectives for the sector.

Organizer; Venue	Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
G.A.B. Edwards and Associates Ltd. 38 Station Road Heaton Mersey Stockport United Kingdom	Monthly 2-4 weeks	Professional qualification. English	-	To be arranged
Roxby Engineering International Ltd. Roxby House Station Road Sidcup Kent United Kingdom	Various 8-12 times a year	-	-	To be arranged
Institute of Public Service University of Connecticut 1380 Asylum Avenue Hartford, CT 06105 United States of America	7 June 1985 8 weeks	Bachelor's degree or equivalent experience. English	15 April 1985	\$US 4,400
<p>ENERGY ENERGIE <u>ENERGIA</u></p>				
ESAT K.U. Leuven Kard. Mercierln 94 B-3030 Heverlee Belgium	October 1985 9 months	Engineering or Bachelor in science. English	-	\$US 250
COPPE - UFRJ Co-ordination of Graduate Programs in Engineering Federal University of Rio de Janeiro Caixa postal 1191 20000 Rio de Janeiro Brazil	October 1985 6 weeks	Professional qualification. Portuguese	-	US\$150

ENERGY (Cont'd)

Course or seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
Stabilized power supplies	Basics, design procedures, maintenance.	Institute for Instrument Design Blvd. "Lenin" 7th km Sofia 1184 Bulgaria	1 April 1985 1 month	Professional qualification. English, Russian	-	US\$450
Energie électrique	Cours sur : production d'électricité ; énergie électrique ; distribution d'énergie électrique ; pédagogie ; gestion de personnel ; hydraulique ; dispatching ; techniques du transport à haute tension ; développement des réseaux d'énergie électrique ; distribution de l'énergie électrique ; planification des investissements.	EDF International 68, rue du Faubourg Saint-Honoré F-75008 Paris France	A fixer 1 semaine- 14 mois	Qualifications professionnelles. Français	-	A fixer
Power utility training	Management and supervisory skills for staff at all levels.	Consultancy Manager Electricity Supply Board Lower Fitzwilliam St. Dublin 2 Ireland	To be arranged 2 months- 2 years	Professional qualification. English	-	On request
Forest energy resources	Study tour to be organized in charcoal production, extraction, conversion, etc.	Forest Industries Division Food and Agriculture Organization (FAO) Via delle Terme di Caracalla I-00100 Rome Italy	1985 and 1986 Exact dates and dura- tion to be decided in due time	Professional qualification. English	-	-
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 sub-stations: 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 I-00187 Rome Italy (Rome and other towns in Italy)	23 January 1985 5 months	Advanced technical education or university degree and 5 years' experience. Italian, French. English, Spanish	-	To be arranged



ENERGY (Cont'd)

Course or seminar	General description	Org; Venue	Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
Energy conservation in industry	Energy aspects of major process unit-operations (combustion, burners, steam generation, heat pumps, pumps and fans, drying evaporation, lightning, cogeneration insulation). Use of instruments for practical work in industries. Energy management.	MT-TNO Heat and Refrigeration Engineering Department P.O. Box 342 7300 AH Apeldoorn Netherlands	To be arranged 5-10 days	Professional qualification. English	-	To be arranged
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	4 September 1985 13 weeks	Engineering degree. English	-	\$US 9,800 (includes housing)
<p>ENVIRONMENT ENVIRONNEMENT MEDIO AMBIENTE</p>						
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 Gand Belgique	8 août 1985 6 semaines	Qualifications professionnelles. Français	-	-
Environmental engineering	N.E.E.R.I. organizes courses on: air pollution control; air quality monitoring; analytical instrumentation in environmental engineering; waste water treatment; solid waste management; preventive maintenance of water distribution systems.	N.E.E.R.I. Nagpur Maharashtra India	October-February 5-20 days	Professional qualification. English	-	To be arranged
Environmental impact assessment of industrial development	To equip the project planners and others working with the industrial EIA system with technical background to make a proper EIA project appraisal.	Office of the National Environment Board 60/1 Soi Prachasumpun 4 Rama VI Road Bangkok 10400 Thailand	7 January 1985 5 days	Professional qualification. English	-	To be arranged

ENVIRONMENT (Cont'd)

Course or seminar	General description	Organizer; Venue
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.	British Water International James House 27 London Road Newbury Berkshire RG13 1JL United Kingdom
Water purification	A general course on the purification of water to levels superior to potable water, for use in industry and health care.	School of Industrial Science Cranfield Institute of Technology Cranfield Bedfordshire United Kingdom
		<u>INDUSTRIAL DESIGN</u> <u>DESIGN INDUSTRIEL</u> <u>DISENO INDUSTRIAL</u>
Engineering and industrial design	Theoretical introduction on product design, tool design, production engineering and manufacturing of prototype product and tools, practical study assignments in design offices and laboratories for metallurgical testing and/or workshops.	Engineering and Industrial Design Development Centre Cairo Egypt

Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
To be arranged 8 weeks	Professional qualification. English	-	To be arranged
1 July 1985 8 weeks	Professional qualification. English	-	£1,756 (provisional)
October 1985 and 1986 2 months	Professional qualification. English	-	To be arranged

INDUSTRIAL DESIGN (Cont'd)

Course or seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
Plant engineering	<p>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.</p> <p>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.</p>	<p>Istituto per la Ricostruzione Industriale (IRI) Direzione Estero Ufficio Cooperazione Tecnica Internazionale Via Veneto 89 I-00187 Rome Italy (Rome and other towns in Italy)</p>	<p>23 January 1985 5 months</p>	<p>Advanced technical education or university degree and 5 years' experience. Italian, French, English, Spanish</p>	-	To be arranged
Industrial design	<p>Introduction to basic understanding of techniques of design processes.</p>	<p>Japan International Co-operation Agency (JICA) 3rd Training Division Training Affairs Dept., P.O. Box 216, Shinjuku-Mitsui Bldg., i-1, Nishi-shinjuku, 2-chome, Shinjuku-ku, Tokyo 160, Japan, in collaboration with Japan Industrial Design Promotion Organization (JIDPO)</p>	<p>August 1985 2.5 months</p>	<p>Professional qualification. English</p>	-	-
Production design engineering for manufacturing engineers and design draughtsmen	<p>Design and draughting techniques, manufacturing methods, planning, project control and design office, management for industrial products in the mechanical, electronic, automotive and aircraft disciplines, rework and repair of circuit boards and electronic assemblies.</p>	<p>Mapline Training Ltd. Graphic House 154 High Street Rayleigh Essex SS6 7BS United Kingdom</p>	<p>January, April, July and October each year 9 months</p>	<p>Professional qualification. English</p>	-	To be arranged
Design and product development	<p>Practical training in: product design; drawing office skills; vehicle systems; design, production interface. (This course is based on the Trantor high speed tractor.)</p>	<p>Trantor International Limited The Development Centre 38 Station Road Heaton Mersey Stockport United Kingdom</p>	<p>Monthly 4-16 weeks</p>	<p>Professional qualification. English</p>	-	To be arranged

Course or seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
<p>INDUSTRIAL INFORMATION AND DOCUMENTATION            INFORMATION ET DOCUMENTATION INDUSTRIELLES            INFORMACION Y DOCUMENTACION INDUSTRIALES</p>						
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	To be arranged 4 weeks	Professional qualification. English	-	-
Handling information for industry	Special in-service training course.	Indian National Scientific Documentation Centre (INSDOC) (C.S.I.R.) 14 Satsang Vihar Marg New Delhi 110067 India	To be arranged	Professional qualification. English	-	To be arranged
Industrial property	WIPO organizes training courses, seminars, study tours and visits on or for: patent information; the use of patent documentation as a source of technological information; general aspects of industrial property; introduction to industrial property; theoretical and practical aspects of industrial property; patent information; trademarks; technical functions of industrial property offices; technical information in patent documents in support of inventions and innovative activities; technical information as an aid to industrial development; patent documentation; trainers in industrial property; patent agents. (Detailed information obtainable from WIPO.)	World Intellectual Property Organization (WIPO) 34, chemin des Colombettes 1211 Geneva 20 Switzerland in collaboration with various governments, patent offices and similar institutions and foundations	June to November 2 days- 2 months (a few programmes take place throughout the year)	Professional qualifications. Candidates 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 or 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	-	-

Course or seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
<u>INDUSTRIAL PLANNING AND PROGRAMMING</u> <u>PLANIFICATION ET PROGRAMMATION INDUSTRIELLES</u> <u>PLANEAMIENTO Y PROGRAMACION INDUSTRIAL</u>						
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. 123a Chaussée de Charleroi Rte 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 ; relation 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, place Albert Leemans B-1050 Bruxelles Belgique	Toute l'année sauf juillet et août ; variable (selon chaque cas)	Qualifications professionnelles. Français	-	BF.15,000 à BF.40,000 par mois
Desarrollo, planificación y políticas públicas	a) Desarrollo, sociedad y planificación en América Latina; b) instrumentos, sectores y coordinación de políticas públicas; c) especializaciones: planificación global y planificación regional.	ILPES-CEPAL Avenida Dag Hammarskjold Casilla 1567 Santiago Chile	Mayo (approx) 6 meses	Calificación profesional. Español	-	A convenir
Problemas actuales y estrategias de desarrollo en América Latina	Interpretaciones del proceso de desarrollo; sociedad, estado y desarrollo; planificación y proceso de desarrollo; precios e inflación; comercio exterior y política cambiaria; política monetaria y financiera; empleos y salarios; sector agropecuario; sector industrial; políticas regionales; estrategias alternativas globales; análisis del mercado común centroamericano y del Pacto Andino; análisis de casos nacionales.	ILPES-CEPAL Avenida Dag Hammarskjold Casilla 1567 Santiago Chile	2° semestre 12 semanas	Calificación profesional. Español	-	-

INDUSTRIAL PLANNING AND PROGRAMMING (Cont'd)

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) Avenida Chesterton 7028 Casilla 10205 Santiago Chile	Junio 1985 2 semanas	Calificación profesional. Español	-	\$US 250
La planificación de la industria y la evaluación de proyectos - industriales	El programa de capacitación comprende los temas siguientes: principios y métodos básicos de la planificación a mediano y largo plazo de la industria. Los problemas de la industrialización, la calificación y el empleo de la mano de obra y el financiamiento de las inversiones en los países en vías de desarrollo. Las etapas de evaluación del proceso inversionista industrial. Los métodos y técnicas de pronósticos. Los problemas de el tamaño y la localización óptima de las nuevas fábricas. Los criterios y métodos de evaluación económico de los proyectos en las distintas etapas. <i>Visitas a centros de investigación y desarrollo.</i>	Universidad de la Habana La Habana Cuba	1 octubre 1985 1° trimestre del 1986 Un mes	Graduado universitario. Español	-	US\$1,500
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 framework 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	October 8 weeks	Personnel engaged in industrial promotion, extension, management and technical counselling specially for agro-industries. English	-	\$US 2,320
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.	CHO - Centre for Management and Industrial Development Exchange Building Coolsingel/Meent Postbox 30042 3001 DA Rotterdam Netherlands	Commencement to be arranged 8-13 weeks	University graduates in engineering, economics or business administration, preferably with experience in industry. English	-	To be arranged

## INDUSTRIAL PLANNING AND PROGRAMMING (Cont'd)

Course or seminar    General description

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Regional  
industrial  
development

The basics of generating or accelerating the development process through industrialization in the context of a region in such a way that they will not only have the theoretical knowledge but also the practical skill to tackle the problems concerned.

National  
economic  
planning  
(advanced course)

Development theory of socialist economy; decision-making process in the centrally planned economy; Poland - host country; socio-economic development of LDC; macro-economic planning; sectoral planning and project evaluation.

Investment  
planning and  
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.

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 the planning p

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.



Organizer; Venue	Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
Research Institute for Management Science (RVB) P.O. Box 143 2600 AC Delft Netherlands	9 January 1985 5 months	Professional qualification. English	-	f.10,000
Central School of Planning and Statistics Research Institute for Developing Countries Rakowiecka Street 24 Warsaw Poland	January 1985 6 months (French) October 1985 6 months (English)	Professional qualification. English or French	-	-
University of Bradford Project Planning Centre for Developing Countries Bradford West Yorkshire BD7 1DP United Kingdom	29 April 1985 12 weeks	University degree and several years' experience of development and/or project work. English	-	£3,100 (includes tuition and accommodation)
University of Bradford Project Planning Centre for Developing Countries Bradford West Yorkshire BD7 1DP United Kingdom	Late September 1985 12 weeks	University degree and several years' experience of development and/or project work. English	-	£3,200 (estimate includes tuition and accommodation)
process.				
University of Bradford Project Planning Centre for Developing Countries Bradford West Yorkshire BD7 1DP United Kingdom	January 1985 and 1986 12 weeks	University degree and several years' experience of development planning and/or project work. English	-	£3,100 (1985) £3,200 (1986) (estimate includes tuition and accommodation)

INDUSTRIAL PLANNING AND PROGRAMMING (Cont'd)

Course or seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
Practical training for potential professional engineers	A course of instruction and practical training concerned with the principles in basic manufacturing processes, work planning and the principles of engineering design, culminating in a design and manufacture type of project activity.	The Centre for Industrial Studies University of Technology Loughborough Leicestershire LE11 3TU United Kingdom	January and September 24 weeks	Professional qualification. English	-	£150 per week
Technology and 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. Particular features of the course are realistic case studies on technology choice, a programme of factory visits, and workshops based on simulation projects.	David Livingstone Institute University of Strathclyde 16 Richmond Street Glasgow G1 1XQ United Kingdom	Early April 12 weeks	Professional qualification. English	-	£4,000 (including accommodation)

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

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 B-2000 Antwerpen Belgique	Toute l'année sauf juillet et août 1-2 semaines (éventuellement 1-2 mois)	Niveau universitaire. Français, anglais	-	-
Promotion des investissements et financement industriel	L'I.B.F. peut organiser des cours sur : l'analyse des projets d'investissement ; l'audit financier externe ; les aspects juridiques liés à l'investissement ; le transfert de technologie ; la stratégie industrielle.	I.B.F. 63, rue Montoyer B-1040 Bruxelles Belgique	Plusieurs sessions par an 2-6 semaines	Qualifications professionnelles. Français	-	A fixer

INVESTMENT PROMOTION AND INDUSTRIAL FINANCING (Cont'd)

Course or seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
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 2, avenue de Broqueville Bte 7 B-1150 Bruxelles Belgique	To be arranged About 4 months	Professional qualification. English or French	-	To be arranged
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 56 oportunidades de capacitación en cualquiera de los temas siguientes: banca de desarrollo y problemas de financiamiento; mercado de capitales; movilización de recursos; administración bancaria; informática; recursos humanos; comercio exterior; desarrollo agro-industrial; desarrollo industrial; desarrollo pesquero; desarrollo rural; vivienda; pre-inversión; promoción de proyectos de inversión; transferencia de tecnología.	ALIDE Paseo de la República 3211 San Isidro Lima Peru (América Latina, Europa y Asia)	Diversas durante el año variable de 2 semanas a 8 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, italiano	-	\$US 125- \$US 1,500

MAINTENANCE AND REPAIR  
ENTRETIEN ET REPARATION  
MANTENIMIENTO Y REPARACION

Corrosion et lutte contre la corrosion	Introduction et théorie de la corrosion des métaux ; aspects thermodynamiques et cinétiques ; méthodes expérimentales d'étude ; essais de corrosion ; principes et application des techniques de protection contre la corrosion.	Centre Belge d'Etude de la Corrosion CEBELCOR 2, avenue Paul Héger Grille B-1050 Bruxelles Belgique	2 ou 3 semaines toute l'année sauf juillet et août	Diplôme de l'enseignement universitaire ou technique supérieur. Français, anglais	-	A arranger
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MAINTENANCE AND REPAIR (Cont'd)

Course or seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
Maintenance industrielle	Séminaire sur les systèmes de gestion de maintenance adaptés aux conditions d'exploitation dans les pays en voie de développement, en particulier la problématique des pièces de rechange, la documentation technique, l'organisation et la planification de la maintenance ainsi que les mesures à prendre lors de l'achat d'équipement. Atelier de maintenance. Visites d'usines.	DGS International S.A. Kortrijksepoortstraat 79 B-9000 Gent Belgique	Toute l'année sauf juillet et août 1-3 mois	Technicien supérieur ou ingénieur	-	A fixer
Testing and maintenance of measuring instruments in industry	The use, testing, calibration and maintenance of measuring equipment, transducers and instruments, and the organization of maintenance and calibration.	Institute for Developing Countries P.O. Box 303 41001 Zagreb Yugoslavia, and IMEKO Secretariat, P.O. Box 457 1371 Budapest 5, Hungary	To be arranged 7-10 days	Professional qualification. English	-	To be arranged
Repair and maintenance	On-job training in repair and maintenance of electronic, electrical, electro-mechanical, medical and optical instruments.	Central Scientific Instruments Organization, Sector 30 Chandigarh 160020 India	To be arranged 4 weeks-6 months	Professional qualification. English	-	To be arranged
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; testing methods and monitoring of corrosion; corrosion prevention by: cathodic and anodic protection, inhibitors, coatings.	University of Ferrara Corrosion Study Centre "A. Dacco" Via L. Borsari 46 I-44100 Ferrara Italy	February 45 days	Degree in engineering, chemistry or physics. Courses in Italian. Discussions in English and French	-	Lit.130,000
Corrosion monitoring and measurement	Detection and measurement of corrosion in high capital cost process plant.	Corrosion Monitoring Consultancy - CMC St. Pirans Denchworth Road Wantage Oxfordshire OX12 9AU United Kingdom	To be arranged 2-4 days	Professional qualification. English	-	To be arranged

MAINTENANCE AND REPAIR (Cont'd)

Course or seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
Agricultural and commercial vehicle maintenance and repair	Practical training in the following: engines, including Perkins and Leyland; transmissions; braking; steering and electrical systems.	Trantor International Limited The Development Centre 38 Station Road Heaton Mersey Stockport United Kingdom	Monthly 4-16 weeks	Professional qualification. English	-	To be arranged
<p>MANAGEMENT AND INDUSTRIAL ADMINISTRATION GESTION ET ADMINISTRATION INDUSTRIELLE <u>GESTION Y ADMINISTRACION INDUSTRIAL</u></p>						
Advanced management	A senior management course for mature middle managers. Major strands: people and organizations, marketing, finance, the decision process, positive influence and negotiation, management and industrial administration.	Australian Institute of Management Victoria P.O. Box 112 St. Kilda, Victoria 3182 Australia	January 4 weeks (residential)	Professional qualification. English	-	\$A 2,500 (approx.)
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. 123a, chaussée de Charleroi, 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. 123a, chaussée de Charleroi, Bte 7 B-1060 Bruxelles Belgique	A fixer	Humanités complètes plus formation spécialisée plus expérience professionnelle minimum de deux ans. Français	-	A fixer

MANAGEMENT AND INDUSTRIAL ADMINISTRATION (Cont'd)

Course or seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
Leadership adapté en milieu industriel	Apprentissage et mise en pratique de grilles d'évaluation des situations en vue d'y apporter la meilleure réponse en terme de leadership en milieu industriel.	Fabrimétal Hainaut-Namur 15, rue Puissant B-6000 Charleroi Belgique	Novembre 1985 6 jours	Dirigeants et cadres de direction. Français	-	Bf.29,000
Management	The course includes detailed training with seven modules covering: training of trainers, managing the industrial enterprise, industrial engineering and production management, organization for management, management, administration and study visits to plants and training centres.	Centre for Professional Development complex "Chervena zvezda" 172 Street No. 11 Sofia 1156 Bulgaria	10 May 1985 8 weeks	Professional qualification. English	31 January 1985	To be arranged
Industrial project management	To improve the participant's ability to manage and carry out a project effectively and economically and to use adequate working and management techniques.	F. Blanz & Co. Oy Training Consultants Höyläämötie 5 SF-00380 Helsinki Finland in co-operation with the Helsinki University of Technology	29 July 1985 4 weeks	Professional qualification. English	-	US\$3,000 including accommodation and tuition
Développement de l'innovation	L'objectif est de former des "entrepreneurs" plutôt que des théoriciens de l'innovation (fonction de chef de produits-marketing, de créateurs d'entreprises). 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 du Groupe Ecole Supérieure de Commerce 32, rue de la Dalbade 31000 Toulouse et Centre de Formation Continue Polytechnique Institut National Polytechnique Place des Hauts Murats 31006 Toulouse, France	Octobre 1985 9 mois	Diplôme de 2ème cycle de l'enseignement supérieur. Français	-	A fixer
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 für Bundesanstalt für Arbeit Hohenstaufenring 30-32 D-5000 Cologne 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 AND INDUSTRIAL ADMINISTRATION (Cont'd)

Course or seminar	General description	Organizer; Venue
Industrial production, maintenance and management	The company organizes 27 courses on general engineering; electrical and electronic engineering; materials and warehouse management; maintenance; welding; quality control; instrumentation and management; and all important branches of the aviation industry.	Dornier GmbH Training Department P.O. Box 2160 D-8000 Munich 66 Federal Republic of Germany
Management	Man management; materials management; plant; methods; quality; scheduling work; construction management; production management; small business management; maintenance management.	AnCO, Mespil House Mespil Road Dublin Ireland
Chief executive programme	Management problems in a developing economy; the corporate plan; the organization; marketing management; finance and accounting; operations; managing people at work; personnel; personal skills. Participants will spend up to two weeks in one or more Irish companies, where possible, chosen to match their own firm.	Irish Management Institute National Management Centre Sandyford Road Dublin 14 Ireland
Management development	The programme will concentrate on a number of distinct but interrelated subject areas such as: business policy; business management; marketing management; finance and accounting; operations; managing people at work; personnel and personal skills.	Irish Management Institute National Management Centre Sandyford Road Dublin 14 Ireland
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

Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
Upon request 3-34 weeks	Professional qualification. English	-	To be arranged
To be arranged	Professional qualification. English	-	To be arranged
26 March 1985 10 weeks	Chief executives of parastatal co-operative or organizations. English	20 February 1985	To be arranged
10 September 1985 8 weeks	Senior and middle level managers. English	6 August 1985	To be arranged
May, October, November 1985 and 1986 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



MANAGEMENT AND INDUSTRIAL ADMINISTRATION (Cont'd)

Course or seminar    General description

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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.

Productivity  
improvement

To develop/install a work study function to implement programmes of productivity improvement; to achieve/maintain substantial improvement in productivity levels; to develop the analytical skills of participants in seeking solutions to production problems.

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.

Expert manage-  
ment consultancy

To widen the experience and increase the resourcefulness of promising junior consultants and operating (resident) representatives who are executing assignments in their field of specialization.

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.

Organizer; Venue	Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
The Association for Overseas Technical Scholarship, Japan 30-1, Senju Azuma 1-chome, Adachi-ku Tokyo Japan	February 1985 and 1986 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
National Productivity Centre P.O. Box 64 Jalan Sultan Petaling Jaya Malaysia	12 August 1985 12 weeks	Professional qualification. English	-	To be arranged
CBO - Centre for Management and Industrial Development Exchange Building Coolsingel/Meent Postbox 30042 3001 DA Rotterdam Netherlands	Commencement to be arranged 8-13 weeks	University graduates in engineering, economics or business administration, preferably with experience in industry. English	-	To be arranged
Research Institute for Management Science (RVB) P.O. Box 143 2600 AC Delft Netherlands	18 September 1985 12 weeks	Professional qualification. English	-	To be arranged
Research Institute for Management Science (RVB) P.O. Box 143 2600 AC Delft Netherlands	17 July 1985 5 1/2 months	Professional qualification and 5 years' business experience. English	3 months before start of course	f.10,000 (tuition only)

MANAGEMENT AND INDUSTRIAL ADMINISTRATION (Cont'd)

Course or seminar	General description
General management	To develop executives with general management capabilities for small and medium sized enterprises in developing countries.
General management for State enterprises	To develop executives with general management capabilities for State enterprises in developing countries; to develop specialists in business planning for State enterprises in developing countries; to develop civil servants with a high degree of awareness of managerial functions and processes.
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.
Technical management	Management for operations and maintenance of chemical and fertilizer plants (emphasis on in-plant training).
Advanced management programme	Business policy; finance and control; profit planning; budgetary control; financial strategy; administrative practices; management system.
Industrial management	Short courses are arranged on: specialized engineering subjects; management training; managerial grid.

Organizer; Venue	Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
Research Institute for Management Science (RVB) P.O. Box 143 2600 AC Delft Netherlands	9 January 1985 5 1/2 months	Professional qualification and business experience. English	3 months before start of course	f.10,000 (tuition only)
Research Institute for Management Science (RVB) P.O. Box 143 2600 AC Delft Netherlands	17 July 1985 5 months	Professional qualification and business experience. English	-	f.10,000 (tuition only)
Research Institute for Management Science (RVB) P.O. Box 143 2600 AC Delft Netherlands	9 January 1985 5 1/2 months	Professional qualification and 5 years' business experience. English	3 months before start of course	f.10,000 (tuition only)
Stamicarbon B.V. P.O. Box 10 6160 MC Geleen Netherlands	February 1985 2 months (course repeated seven times in 1985 and 1986)	Professional qualification. English or German	-	To be arranged
Pakistan Institute of Management, Shahrah Iran, Clifton Karachi-6 Pakistan	17 August 1985 3 weeks	Professional qualification. English	-	Prs.5,000
Training and Manpower Development Department Pakistan Steel Bin Qasim Karachi 50 Pakistan	To be arranged 1-4 weeks	Professional qualification. English	-	To be arranged

MANAGEMENT AND INDUSTRIAL ADMINISTRATION (Cont'd)

Course or seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
Management and industrial development	General management; management of industrial and agro-industrial enterprises; management of small and medium sized enterprises; management in various economic sectors; management in various industrial branches and sub-branches; functional management.	CEPECA-International Centre for Management Development Otopeni Soseaua odai No. 20 Bucharest Romania	March, July, September and November 1985 and 1986 6-10 weeks	Professional qualification. English and French	-	US\$450 per week (accommodation and meals included)
Production management	The concept of production management; production planning and control; factory layout; work methods; work measurement; preparation of cash flows.	Management Development Centre P.O. Box 2308 Khartoum Sudan	To be arranged 4 weeks	Professional qualification. English	-	To be arranged
Management	General management programme for managers responsible for planning and operation of industrial activities in the developing countries. Particular emphasis: strategic issues, creation and management of joint business activities, managerial control and accounting, finance, marketing, production and logistics, technology transfer, multicultural management, international contracts and procurement.	Swedish Institute of Management Box 6501 113 83 Stockholm Sweden	July 1985 and 1986 6 weeks	Minimum 10 years' work experience in business or administration. English	1 May	To be arranged
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- 14 days	Professional qualification. English	-	SwF.4,000- SwF.6,700
General management	Production planning; capacity utilization; maintenance programmes; marketing strategy; organization structuring; manpower planning; performance improvement; business strategy; translating policy.	National Institute for Productivity P.O. Box 2021 Dar es Salaam United Republic of Tanzania (Arusha)	April 1985 6 weeks	Top executives in parastatal and private sectors. English	-	T.Shs.16,200 per week

MANAGEMENT AND INDUSTRIAL ADMINISTRATION (Cont'd)

Course or seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
Management	Courses are arranged in: marketing management and business development; corporate strategy; senior management; transport management; management development; improving managerial performance, etc.	Ashbridge Management College Berkhamsted Hertfordshire HP4 1NS United Kingdom	Throughout year 1-8 weeks	Professional qualification. English	-	To be arranged
General management	A short project-based management programme in four parts designed to achieve practical, implementable solutions for real problems which trainees bring to the programme.	Brian Levett and Co Ltd Church Terrace Main Street Aberford West Yorkshire United Kingdom	To suit sponsor's and/or host country requirements 8 months approx.	Professional qualification. English	-	To be arranged
Innovation	A. <u>Product identification.</u> The use of idea-generating methods, e.g. trigger words, brainstorming, synectics, to produce new product ideas; and in the evaluation of these ideas to the stage where they could form the basis for new manufacturing activity relevant to community needs. B. <u>Creating of manufacturing activity.</u> The basic business skills required to set up a new manufacturing activity; requirements for financial planning, marketing and production planning.	Centre for Development of Innovation Training Department of Education University College Cardiff United Kingdom	Autumn 1985 1 month	Professional qualification. English	-	£350
International management	An intensive career development programme for professors, administrators and trainers in management education and development. Programme concentrates on the design, implementation and evaluation of management education programmes within an international setting.	Centre for the Study of Management University of Lancaster Lancaster LA1 4YX United Kingdom	July 1985 6 weeks	Professional qualification. English	30 April 1985	£2,600 approx.
Management	Organizational audit and management; developing client in-house expertise in the management of development projects; programme design, development, monitoring and control.	Construction Management and Training Ltd. Clair House 55 Perrymount Road Haywards Heath West Sussex United Kingdom	To be arranged	Professional qualification. English	-	To be arranged

MANAGEMENT AND INDUSTRIAL ADMINISTRATION (Cont'd)

Course or seminar	General description
Site management	Communications in the construction industry; industrial relations; working conditions; health and safety; contractual procedures; management planning; productivity techniques; site surveying and levelling.
Supply and materials management	To equip middle and senior management personnel to develop existing supplies procedures, plan new supplies systems and to integrate existing but diversified supply activities.
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 applications.
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.
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. It also provides the opportunity for members to evaluate their own experience and approaches against those of similar people working in other enterprises and environments.

Organizer; Venue	Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
Crown Agents Training Services 4 Millbank London SW1P 3JD United Kingdom	18 February and 1 July 1985 12 weeks	Managers/officers in the field of construction. English	-	£5,350 fully residential
Crown Agents Training Services 4 Millbank London SW1P 3JD United Kingdom	14 January, 9 April, 1 July and 23 September 1985 12 weeks	Professional qualification. English	-	£5,350 (fully residential)
Fielden House Produc- tivity Centre Ltd. 856 Wilmslow Road Didsbury Manchester M20 8RY United Kingdom	Throughout year 5-10 weeks	Professional qualification. English	-	Between £615 and £945 + VAT
The Management College Greenlands Henley-on-Thames Oxon RG9 3AU United Kingdom	7 January, 28 May and 21 October 1985 9 weeks fully residential	Professional qualification. English	-	£6,850 + VAT in 1984 but reviewed annually
The Management College Greenlands Henley-on-Thames Oxon RG9 3AU United Kingdom	15 April and 2 Sep- tember 1985 7 April and 1 Sep- tember 1986 4 weeks fully residential	Professional qualification. English	-	£3,750 + VAT in 1984 but reviewed annually



MANAGEMENT AND INDUSTRIAL ADMINISTRATION (Cont'd)

Course or seminar	General description	Organizer; Venue
Production management	Sharing British production management expertise. A programme for production and industrial engineering specialists from beyond Britain.	Industrial Training Service Ltd. 73-75 Mortimer Street London W1N 8HX United Kingdom
Management	Business finance/accountancy; sales and marketing; communication skills; leadership and motivation; recruitment and selection; appraisal; training the trainer; manpower development.	The Institute of Management Education 7 Westbourne Road Southport Merseyside PR8 2HZ United Kingdom
Industrial management	Courses on: industrial administration; production planning and control; planned maintenance; production control; production and materials management; production and management control; modern materials management.	Institute of Production Control National Westminster House Wood Street Stratford-upon-Avon Warwickshire United Kingdom (in various countries)
Purchasing and materials management	Purchase practice and technique; purchasing and supply management; stores management and stock control; materials management; business studies; shipping.	Institute of Purchasing and Supply Easton House Easton on the Hill Stamford Lincolnshire PE9 3NZ United Kingdom (Brighton, Sussex)
Purchasing, supply and materials management	Materials management; computers and data processing; international procurement; legal and financial aspects; purchasing research.	Institute of Purchasing and Supply Easton House Easton on the Hill Stamford Lincolnshire PE9 3NZ United Kingdom

Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
16 September 1985 & 15 September 1986 3 months	Professional qualification. English	-	£4,000
7 January 1985 50 weeks	Professional qualification. English	-	£10,000 (fully residential)
May to November 1985 4-16 weeks	Professional qualification. English	-	To be arranged
25 February-17 May and 10 June-30 August 1985 12 weeks	Middle management and senior personnel. English	-	To be arranged
27 May-5 July and 26 August-4 October 1985 6 weeks	Senior purchasing and supply management. English	-	To be arranged

MANAGEMENT AND INDUSTRIAL ADMINISTRATION (Cont'd)

Course or seminar	General description	Organizer; Venue
General management	The senior executive course is intended for executives at or near board level, who wish to obtain a fairly rapid but comprehensive view of current thinking over a wide range of topics relevant to senior management.	Manchester Business School Booth Street West Manchester M15 6PB United Kingdom
Management	Courses are organized on: general management; international management; process-industry management; management of research and development; managing technical professionals.	Manchester Business School Booth Street West Manchester M15 6PB United Kingdom
General management	A course in two parts, with an optional third part, a project leading to the Oxford University Certificate in Management Studies.	Oxford Centre for Management Studies Kennington Oxfordshire OX1 5NY United Kingdom
General management	A course using the case method of teaching, given by American professors mostly from the Harvard Business School. (The Centre also organizes individual courses ranging in length from one day to two months or longer.)	Oxford Centre for Management Studies Kennington Oxfordshire OX1 5NY United Kingdom
Management	More than 70 courses and in-company training programmes are organized in such subjects as: communications; management; supervision; sales; design; maintenance; electronics; production technology; quality; industrial purchasing; stock control, etc.	PERA Melton Mowbray Leicestershire LE13 0PB United Kingdom
Administration and management	Courses on: organization; methods and job evaluation; management information; project management; management services; training techniques; management of training; financial management in government.	Royal Institute of Public Administration Overseas Services Unit Hamilton House Mabledon Place London WC1H 9BD United Kingdom

Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
14 January and 9 September 1985 3 weeks	Professional qualification. English	-	£2,950 (1984)
Throughout year 3-10 weeks	Professional qualification. English	-	£6,500 (subject to review)
January 1985 9 weeks	Professional qualification. English	-	£5,500 for 1984
July 1985 6 weeks	Professional qualification. English	-	£4,400 for 1984
Throughout year Variable	Professional qualification. English	-	To be arranged
February, May, August and September 3 months	Professional qualification. English	-	To be arranged

MANAGEMENT AND INDUSTRIAL ADMINISTRATION (Cont'd)

Course or seminar    General description

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Management (petroleum industry)	Courses on: the effective manager; financial management and control; lubricants - their management and applications; the management of petroleum enterprises; transportation and handling of petroleum products; management of maintenance; manpower development for the petroleum industry; the technology of training; the
Implementation and management of industrial and infrastructure projects	The course covers project design, appraisal, approval and obtaining finance; implementation planning; tenders, contracts, licences and consultants; management and control of on-going projects; management and control of projects in operational stage.
Public enter- prise management	Concentration is on policy and strategy with the overall objective of increasing effectiveness. The specific nature of public enterprises is analysed and the relationship with government and public is explored. Delegates will study specific experiences of public enterprise management, will update their appreciation of a range of management techniques and develop personal management skills.
Finance	Public finance and financial management for financial officials in Third World countries. Covers planning, budgeting, cost management, fiscal and monetary policy, balance of payments and trade issues, international financial flows.
Management	A short course for managing the training function in Third World countries.

Organizer; Venue	Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
Spectrum Training Services Ltd. 160 Old Christchurch Road Bournemouth BH1 1NL United Kingdom	March- November 2 weeks- 10 months	Professional qualification. English (some courses Arabic)	-	£1,000- £1,250 per week £5,000 for 10 months' course
technology of management; management consultancy.				
University of Bradford Project Planning Centre Bradford West Yorkshire BD7 1DP United Kingdom	Late September 1985 12 weeks	Professional qualification. English	-	£3,200 (estimate, includes tuition and accommodation)
University of Leeds International Services Department of Management Studies 181 Woodhouse Lane Leeds LS2 3AR United Kingdom	April 12 weeks	Professional qualification. English	-	£2,300
Department of Administrative Studies University of Manchester Precinct Centre Manchester M13 9QS United Kingdom	April 12 weeks	Professional qualification. English	-	£2,300 (plus accommodation) for 1985
Department of Administrative Studies University of Manchester Precinct Centre Manchester M13 9QS United Kingdom	January 12 weeks	Professional qualification. English	-	£2,300 (plus accommodation) for 1985

MANAGEMENT AND INDUSTRIAL ADMINISTRATION (Cont'd)

Course or seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
Management	A short course in the management of agricultural and rural development for government officials in Third World countries. Covers rural development planning, agricultural management, role and co-ordination of development agencies, planning and budgeting, monitoring and evaluation, agricultural marketing, credit management, co-operatives, etc.	Department of Administrative Studies University of Manchester Precinct Centre Manchester M13 9QS United Kingdom	September 12 weeks	Professional qualification. English	-	£2,300 (plus accommodation) for 1985
Management development	Designed and individually tailored to develop managerial skills. Areas of specialization include: agribusiness, health finance, public administration, nutrition, energy, natural resources and industry. Primarily for people from developing nations.	Graduate School, USDA International Programs 600 Maryland Avenue SW Washington, DC 20024 United States of America	1 September 1985 9 months	Professional qualification. English	1 July 1985	\$US 10,500
Fundamentals of management	A programme designed for professionals (such as engineers, lawyers, health professionals, educators, agriculturalists, accountants, or economists) who have not received formal training in the managerial aspects of their work, but who are expected to assume managerial responsibilities.	Institute of Public Service University of Connecticut 1380 Asylum Avenue Hartford, CT 06105 United States of America	7 June 1985 6 weeks	Professional qualification. English	-	\$US 4,000
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	7 June 1985 12 weeks	Professional qualification. English	-	\$US 4,800
Project management for local development	Methodology of project preparation and analysis; project monitoring and control; systems analysis; methodologies of data gathering and interpretation; techniques in local development planning; budgeting systems; management processes and techniques for local development; management by objectives (MBO) and performance improvement planning (PIP); training for local development economics; implementation of change.	Institute of Public Service University of Connecticut 1380 Asylum Avenue Hartford, CT 06105 United States of America	7 June 1985 10 weeks	Professional qualification. English	-	\$US 4,800

MANAGEMENT AND INDUSTRIAL ADMINISTRATION (Cont'd)

Course or seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
Public management development programme	Financial management; management science; project analysis; local development administration; personnel management; management of training.	Institute of Public Service University of Connecticut 1380 Asylum Avenue Hartford, CT 06105 United States of America	20 September 1985 7 months	Professional qualification. English	-	\$US 6,900
Participative management	The participants should be able to: (a) describe the concept of leadership and how some styles can be used in effective participative management; (b) discuss the concept of participative management within the ideological context; (c) correctly and effectively conduct meetings, conferences, etc.; (d) educate the employees through seminars, symposia, etc.	Zimco Institute of Management P.O. Box 31735 Lusaka Zambia	To be arranged 4 weeks	Professional qualification. English	-	K.660 per participant including full board and lodging

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

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 Cologne 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
International trade	International marketing; scope and tasks; organization and management; behavioural sciences; economic analysis; economic systems and foreign trade; India's foreign trade; quantitative methods; international marketing and management; marketing research; financial management; costing and pricing; marketing logistics; export-import procedures and documentation; export marketing of products and market characteristics of trading areas; research projects.	Indian Institute of Foreign Trade Ashok Bhawan 93 Nehru Place New Delhi 110019 India	Mid-July 1 year	Professional qualification. English	-	To be arranged



MARKETING AND EXPORT PROMOTION (Cont'd)

Course or seminar    General description

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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.

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; successful exporting; case studies and visits.

Marketing  
management and  
physical dis-  
tribution

Managerial training in marketing policy and practice, an exposure to marketing conditions and action through marketing workshops and a skill at handling physical distribution problems.

Marketing  
management

Participants will learn principles of marketing management used in the United States and world wide and how to apply the principles to other environments. Participants will also learn modern methods of marketing research.

Organizer; Venue	Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
CBO - Centre for Management and Industrial Development Exchange Building Coolsingel/Meent P.O. Box 30042 3001 DA Rotterdam Netherlands	Commencement to be arranged 8-13 weeks	University graduates in engineering, economics or business administration, preferably with experience in industry. English	-	To be arranged
International Centre for Quality and Management Sciences P.O. Box 2082 3000 CB Rotterdam Netherlands	6 May 1985 and 5 May 1986 12 weeks	Bachelor degree or equivalent and experience in a relevant field of study. English	-	f.9,000
; international communications; organization for international market; its.				
Research Institute for Management Science (RVB) P.O. Box 143 2600 AC Delft Netherlands	9 January 1985 5 months	Professional qualification and business experience. English	-	f.10,000 (tuition only)
Graduate School, USDA International Programs 600 Maryland Avenue SW Washington, DC 20024 United States of America	To be arranged 3 times a year	Professional qualification. English	-	US\$350

Course or seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
<p>QUALITY CONTROL AND STANDARDIZATION            CONTROLE DE LA QUALITE ET NORMALISATION            CONTROL DE CALIDAD Y NORMALIZACION</p>						
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 CEBEC. 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.) 29, avenue de la Brabançonne 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 Normalizaçao e Qualidade Industrial SAS Quadra 2 Lotes 1/2 70.070 Brasilia D.F. Brazil	27 August 6 weeks	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 Normalizaçao e Qualidade Industrial SAS Quadra 2 Lotes 1/2 70.070 Brasilia D.F. Brazil	July 3 months	Professional qualification. Spanish and Portuguese	-	To be arranged

QUALITY CONTROL AND STANDARDIZATION (Cont'd)

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 Normalizacao e Qualidade Industrial SAS Quadra 2 Lotes 1/2 70.070 Brasilia D.F. Brazil	15 October 1984 2 months	Professional qualification. Spanish and Portuguese	-	To be arranged
Metrologia	Principios de metrologia. Sistema nacional de normalización, metrología y control de la calidad. Sistema de normas de aseguramiento metrologico. Desarrollo y aplicación de los programas de aseguramiento metrologico en diferentes ramas industriales. Servicio nacional de verificación. Introducción a las mediciones industriales en las magnitudes mecánicas, termodinámicas y eléctricas. Entrenamiento práctico en los laboratorios de INIMET.	INIMET - Instituto de Investigaciones en Metrología del CEN Consulado No. 206 La Habana Cuba	Septiembre 3 meses	Técnicos relacionados con la metrología. Español e inglés	-	A convenir
Normalisation et gestion de la qualité	Organisation de la normalisation sur le plan entreprise, national, régional et international. Elaboration et application des normes. Avantages économiques de la normalisation. Organisation d'un centre d'information sur les normes et règlements techniques. Contrôle et gestion de la qualité dans l'entreprise. Organisation d'un système de certification.	AFNOR-AFCIQ Tour Europe F-92080 Paris La Défense France	A fixer 2-3 semaines	Ingénieurs et techniciens. Français	-	A fixer
Standardization	Short courses or seminars on: current activities in the standardization of materials; word processing in the field of standardization; CAS/CAP systems; numbering techniques; pipeline network calculation; rules for calculating the heat requirement of buildings; current standardization activities in the field of drawings; internal standardization - basic means; and internal standardization activities - methods and data processing systems.	DIN Deutsches Institut für Normung e.V. Burggrafenstrasse 4-10 D-1000 Berlin (West) 30	Throughout year Variable	Professional qualification. German	-	DM.260- DM.820

QUALITY CONTROL AND STANDARDIZATION (Cont'd)

Course or seminar	General description	Organizer; Venue
Metrology	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 Cologne 1 Federal Republic of Germany
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
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 30-1, Senju Azuma 1-chome, Adachi-ku Tokyo Japan

Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
To be arranged 17 months including 1 month introduction and 4 months' language training	Professional qualification and experience in metrology. German	-	To be arranged
July 1935 and 1986 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
24 January 1985 8 weeks	Engineering degree with managerial quality control. At least 5 years' industrial quality control practical experience in electro-mechanical engineering industry or with industrial organization services to above industry. English	-	To be arranged

QUALITY CONTROL AND STANDARDIZATION (Cont'd)

Course or seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
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 1985 and 1986 3 weeks	Senior managers of developing countries who are responsible for quality and productivity in his/her organization. English	5 months before commencement of the programme	Y.327,000
Advanced quality control techniques	The techniques are presented in a simple and pragmatic way with the accent being on application rather than theory and on how these techniques compare with the old and well-established ones. Topics covered in the Seminar include: elements of "Quality-metrics" or the measurement of quality, economic design of control charts, modified control limits, multivariate charts, cumulative-sum techniques, evolutionary operations, pre-control, continuous sampling plans, production decisions, equipment decisions, operations research applications in quality control and computer influence on quality control.	International Centre for Quality and Management Sciences P.O. Box 2082 3000 CE Rotterdam Netherlands	3 June 1985 and 2 June 1986 4 weeks	Bachelor degree or equivalent and experience in quality control or a related discipline. English	3 months before commencing date	f.4,000
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	7 January and 26 August 1985 and 6 January and 25 August 1986 4 months	Bachelor degree or equivalent and experience in quality control or a related discipline. English	-	f.13,000
Quality systems installation, auditing and improvement	Various types of control systems are discussed including the organization schemes and cost-reporting methods that go with each type. For existing quality control systems, the Seminar shows systematic methods of auditing and improving the system to make it work more efficiently, hence economically. Topics dealt with include: quality control functions, types of quality control systems, organization for quality assurance, introducing a quality control system, setting-up for inspection, sampling plans and their use, analysing a quality system, quality systems auditing, quality motivation and improvement programmes and quality requirements for export to industrial nations.	International Centre for Quality and Management Sciences P.O. Box 2082 3000 CB Rotterdam Netherlands	2 September 1985 and 3 September 1986 4 weeks	Bachelor degree or equivalent and experience in quality control or a related discipline. English	3 months before commencing date	f.4,000

QUALITY CONTROL AND STANDARDIZATION (Cont'd)

Course or seminar	General description	Organizer; Venue
Statistical quality control, a computer-oriented approach	The emphasis is devoted to the development and applications of various statistical tools underlying the modern methods of controlling the quality of goods and services at an early stage of the production cycle. Topics covered in the course include: the nature and impact of the computer, flow diagrams for statistical analysis, probability and probability distributions, sampling theory experimental design and regression and correlation analysis.	International Centre for Quality and Management Sciences P.O. Box 2082 3000 CB Rotterdam Netherlands
Quality control	Short courses on quality control in weaving mills; textile testing; spinning process and control; batik.	Textile Industry Division Department of Industrial Promotion Soi Kluay Nam Tai Prakanong Bangkok 10110 Thailand
Metrology	A practical course in mass, length, volume and flow measurement for inspectors in legal metrology.	Department of Trade National Weights and Measures Laboratory 26 Chapter Street London SW1P 4NS United Kingdom
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



Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
21 October 1985 and 20 October 1986 8 weeks	Bachelor degree or equivalent and experience in quality control or a related discipline. English	3 months before commencing date	£6,000

and techniques, tests of significance, control charts,

To be arranged 2-3 weeks	Professional qualification. Thai	-	To be arranged
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May each year 3 weeks	Professional qualification. English	February	£600
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Mid-September 1985 and 1986 12 weeks	Professional qualification. English	-	£850-£875
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QUALITY CONTROL AND STANDARDIZATION (Cont'd)

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; 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	-	To be arranged
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 1985 and 1986 6 months	Degree science or engineering. English	-	£1,000- £1,100
Metrology and trading standards enforcement	Metrological controls imposed over equipment, goods and services in trade use which are exercised by Trading Standards Officers (Weights and Measures Inspectors), including Consumer Protection Law and practice.	South West Council Trading Standards Unit Daunceys Hotel Claremont Crescent Weston-Super-Mare Avon BS23 2EE United Kingdom	February each year 12 weeks	Professional qualification. English	-	£2,400 approx.
<p><u>SMALL-SCALE INDUSTRIES AND ENTREPRENEURSHIP</u>  <u>PETITES INDUSTRIES ET ENTREPRENEURS</u>  <u>PEQUEÑAS INDUSTRIAS Y LOS EMPRESARIOS</u></p>						
Small industry financing	Understand the policies and programmes in India for financing small industry; improve their skills in scrutinizing 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	October 8 weeks	Personnel engaged in promoting/financing small industries. English	-	\$US 2,320

SMALL-SCALE INDUSTRIES AND ENTREPRENEURSHIP (Cont'd)

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	September 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	September 12 weeks	Personnel engaged in promotion of industries. English	-	\$US 3,250
Promotion of income-generating projects for women in rural areas	Programme of studies include: community development; basic economics; working with groups; human relations; co-operation; organization of pre-co-operatives; production management; marketing and sales promotion; administration of small-scale industries and exercise in setting up a small enterprise; analysis of practical projects planned by the participants for implementation in their countries.	Mount Carmel International Training Center for Community Development (MCTC) 12 David Pinsky 34351 Haifa Israel	25 May 1985 4 months	The course is open to professional women and men between the ages of 25-40. English	-	\$US 4,400 (covering studies, full board, lodging, and pocket money)
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. The programme provides tools for problem-solving and familiarizes the participant with their use through field assignments. The interaction of the different managerial aspects and the interrelation between enterprise and environment will also be demonstrated.	Research Institute for Management Science (RVB) P.O. Box 143 2600 AC Delft Netherlands	17 July 1985 5 months	Professional qualification and business experience. English	-	f.10,000 (tuition only)

SMALL-SCALE INDUSTRIES AND ENTREPRENEURSHIP (Cont'd)

Course or seminar	General description	Organizer; Venue
Promotion of small-scale enterprises in developing countries	The objective of this programme is to enable participants to improve the ways in which they promote local small enterprises, through financing, extension, training, entrepreneurship development, consultancy and the design and implementation of general government policies.	The Enterprise Development Centre Cranfield School of Management Cranfield Bedford MK43 0AL United Kingdom
Management of a small business	The course aims to prepare trainees with the special skills required in running or managing a small company. It will cover all management skills, such as management of time, assets and resources. Recruitment, selection and training of staff. Computer assisted management and marketing management.	Management and Industrial Training Services Ltd. 260 Macaulay Street Grimsby South Humberside DN31 2 United Kingdom
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.	The Small Business Centre University of Aston 200 Aston Brook Street Birmingham B6 4SY United Kingdom
Small business management	Organization delegation, leadership and motivation; financial management, accountancy and management accountancy; marketing and organizing the selling effort; managing the production/service function; managing people; and conducting an organizational audit.	The Small Business Centre, University of Aston 200 Aston Brook Street Birmingham United Kingdom
Small business development	The course is intended for middle and senior managers directly or indirectly involved in promoting the development of small businesses. Such personnel may come from a wide range of agencies.	Small Business Centre Durham University Business School Mill Hill Lane Durham DH1 3LB United Kingdom

Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
September 1985 and 1986 8 weeks	Professional qualification. English	-	£3,650 (1985) £3,750 (1986)
To be arranged 12 weeks	Professional qualification. English	-	£110 per week
January 1985 7 weeks	Professional qualification. English	-	£1,000 exclusive of accommo- dation
March 1985 13 weeks	Professional qualification. English	-	£1,300 exclusive of accommo- dation
6 May 1985 10 weeks	Professional qualification. English	31 March 1985	£4,000 approx. (including accommo- dation)

KEY

Course or seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
TRAINER DEVELOPMENT PERFECTIONNEMENT DU PERSONNEL ENSEIGNANT DESARROLLO DE PROFESIONALES DE CAPACITACION						
Trainers	The Department organises short courses for trainers: instruction techniques; operator course design; supervisor development; management of training; interpersonal relations; instruction communication; method improvement; accident prevention; apprentice trainer.	National Trainer Training Service Department of Employment and Industrial Relations P.O. Box 399 Canberra City ACT 2601 Australia (venues throughout Australia)	Throughout year 4-45 days	Professional qualification. English	-	US\$100-500
Perfectionnement du personnel enseignant	Sélection et formation d'instructeurs, de concepteurs de manuels ; formation des contremaîtres et des ingénieurs à l'élaboration des modes opératoires ; formation d'ingénieurs.	International Executives Benelux SA "INTEX" 5, rue de la Science B-1040 Bruxelles Belgique	Toute l'année sauf de juillet au 15 septembre A fixer	Qualifications professionnelles. Français ou anglais	-	A fixer
Sélection et formation d'instructeurs	Préparation des techniciens au rôle d'instructeurs en leur enseignant les connaissances et techniques didactiques voulues afin qu'ils puissent assurer à leur tour cette formation à d'autres techniciens de la même branche, et ce, valablement et de la manière la plus efficace.	International Executives Benelux SA "INTEX" 5, rue de la Science B-1040 Bruxelles Belgique	Toute l'année sauf de juillet au 15 septembre A fixer	Qualifications professionnelles. Français, anglais	-	A fixer
Training of trainers	Various measuring methods, techniques and applications as well as metrology combined with training needs analysis, training objectives, training design evaluations and learning methods. The courses are organized at various European universities.	IMEKO Secretariat P.O. Box 457 H-1371 Budapest 5 Hungary	February and June 1986 10 days	Professional qualification. English	-	To be arranged
Training of trainers	Entrepreneurial motivation through micro-lab. Identification and preparation of feasibility reports, enterprise building skills covering different aspects of management, etc.	National Institute for Entrepreneurship and Small Business Development NSIC-PDTC Campus Okhla Industrial Estate New Delhi, India	8 October 1985 and 7 January 1986 3 weeks	Professional qualification. English	-	To be arranged

TRAINER DEVELOPMENT (Cont'd)

Course or seminar	General description	Organizer; Venue
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
Trainers' workshop	There are four major components of the workshop: theory and techniques of teaching adults; personal skills of the trainers; preparation of training materials; training within the organization.	Irish Management Institute National Management Centre Sandyford Road Dublin 14 Ireland
Trainers' development	Training of trainers for personnel development; training of trainers for management development; training of trainers for industrial manpower; organization and management of the training centres.	CEPECA-International Centre for Management Development Otopeni Soseaua Odai No. 20 Bucharest Romania
Trainer development	EITB organizes specialist courses for training managers, training officers and instructors for the engineering and other industries.	Engineering Industry Training Board (EITB) Webton Court Allerton Park Leeds LS7 4ND United Kingdom
Training of trainers	This course is for newly appointed training officers or those who require to update 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 856 Wimslow Road Didsbury Manchester M20 8RY United Kingdom

Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
September 9 weeks	Personnel engaged in training. English	-	\$US 2,555
20 May 1985 8 weeks	Trainers of managers and administrators. English	5 April 1985	To be arranged
March, July, September and November 1985 and 1986 6-10 weeks	Professional qualification. English and French	-	US\$450 per week (accommodation and meals included)
To be arranged	Professional qualification. English	-	To be arranged
Throughout year 10 weeks	Professional qualification. English	-	£910 + VAT



TRAINER DEVELOPMENT (Cont'd)

Course or seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
Sharing British training expertise	To help participants to develop a detailed understanding of systematic training and its application in all fields of work activity, including the contribution which it can make to the development of human resources.	Industrial Training Service Limited 43 Market Place Wetherby West Yorkshire LS22 4LN United Kingdom	Mid-July 1985 13 weeks	Professional qualification. English	-	£3,750 * (* estimate)
Training of trainers	The course is designed to provide trainees with the wide and varied range of skills necessary to undertake work as an instructor or training developer. It includes: developing trainer/student relationships; analysing tasks for training; preparing and giving lectures; visual aids; distance learning methods and their preparation; developing skills in learners; making assessments; testing reviewing and planning.	Management and Industrial Training Services Ltd. 260 Macaulay Street Grimsby South Humberside DN31 2EY United Kingdom	To be arranged 26 weeks	Professional qualification. English	-	£110 per week
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.	School of Management Studies, Polytechnic of Central London 35 Marylebone Road London NW1 5LS United Kingdom	To be arranged 4-24 weeks	Professional qualification. English	-	Depending on length and tutorial input £500-2,400
Trainer development	Designed for training staff from countries outside the United Kingdom who are in their first few years in a training role, and who wish to both learn about sound training and development practice and transfer relevant parts of it to their own work situation.	Slough College Wellington Street Slough Berkshire SL1 1YG United Kingdom	Throughout year To be arranged	Professional qualification. English	-	To be arranged
Training and internal consultancy	A project-based intensive course for pairs of delegates designed to achieve tangible, beneficial change in their home organization. Delegates apply the management, training and consultancy knowledge and skills they learn to a real problem, plan their approach in detail and target for significant but achievable improvement.	University of Leeds International Services Department of Management Studies 181 Woodhouse Lane Leeds LS2 3AR United Kingdom	April 12 weeks	Senior management position plus at least 5 years' management experience. Delegates are selected in pairs, typically a line manager who brings the project and a support manager (e.g. personnel, training, management services, etc.) who will help solve it. English	-	£2,300

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
Analytical chemistry	Postgraduate course in chemistry research techniques. Nine week intensive formal course followed by seven months of individual project work related to students' particular interests.	School of Chemistry University of New South Wales Sydney, N.S.W. Australia	11 March 1985 (The course may be offered in 1986)	Master's or bachelor's degree supplemented by several years' experience as a research worker. English	-	-
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 für Verfahrenstechnik und Technologie der Brennstoffe Getreidemarkt 9 A-1060 Vienna Austria	Summer semester 1985 28 hours	University degree. German	-	-
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 B-1020 Brussels Belgium	To be arranged 2 weeks	Professional qualification and professional experience. English	-	To be arranged
Small scale industries Petites et moyennes entreprises (P.M.E.)	Study trip and introduction to the Belgian and European organizations for independent workers and small scale industries; seminars, workshops and receptions.	European Independent Business Confederation Organisation Européenne des Classes Moyennes Place de l'Albertine 2 B-1000 Bruxelles Belgique	Throughout year (except July and August) 1-2 weeks	Professional qualification. English, French and Dutch	-	To be arranged

OTHER TRAINING OPPORTUNITIES AND SHORT COURSES (Cont'd)

Course or seminar	General description	Organizer; Venue
Maintenance	Formation méthodologique et pratique à la maintenance industrielle en : traitement des eaux, régulation, pneumatique et hydraulique, froid et climatisation, chaufferie ; maintenance des machines-outils ; mini et micro informatique appliquée à la maintenance industrielle.	Fabrique Nationale Herstal S.A. (FN) 63, rue en Bois B-4400 Herstal Belgique
Management	Courses or meetings on: introduction to S & T administration; matters and problems related to industrial technology centres; management of projects and programmes of technology; R & D management in industry; scientific and technological research management; S & T research management; impact of technological research.	IA/FEA - USP (Institute of Administration/ School of Economics and Administration) University of Sao Paul Brazil
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) Avenida Chesterton 7028 Casilla 10205 Santiago Chile
Ingeniería económica	Principios de ingeniería económica; conceptos fundamentales; decisión; alternativas múltiples; retiros y reemplazos; evaluación de un proyecto.	Instituto Nacional de Capacitación Profesional (INACAP) Avenida Chesterton 7028 Casilla 10205 Santiago Chile
International trade fair management	Seminar organized on management of trade fairs in Latin America.	UFI - Union of International Fairs Bogotá Colombia

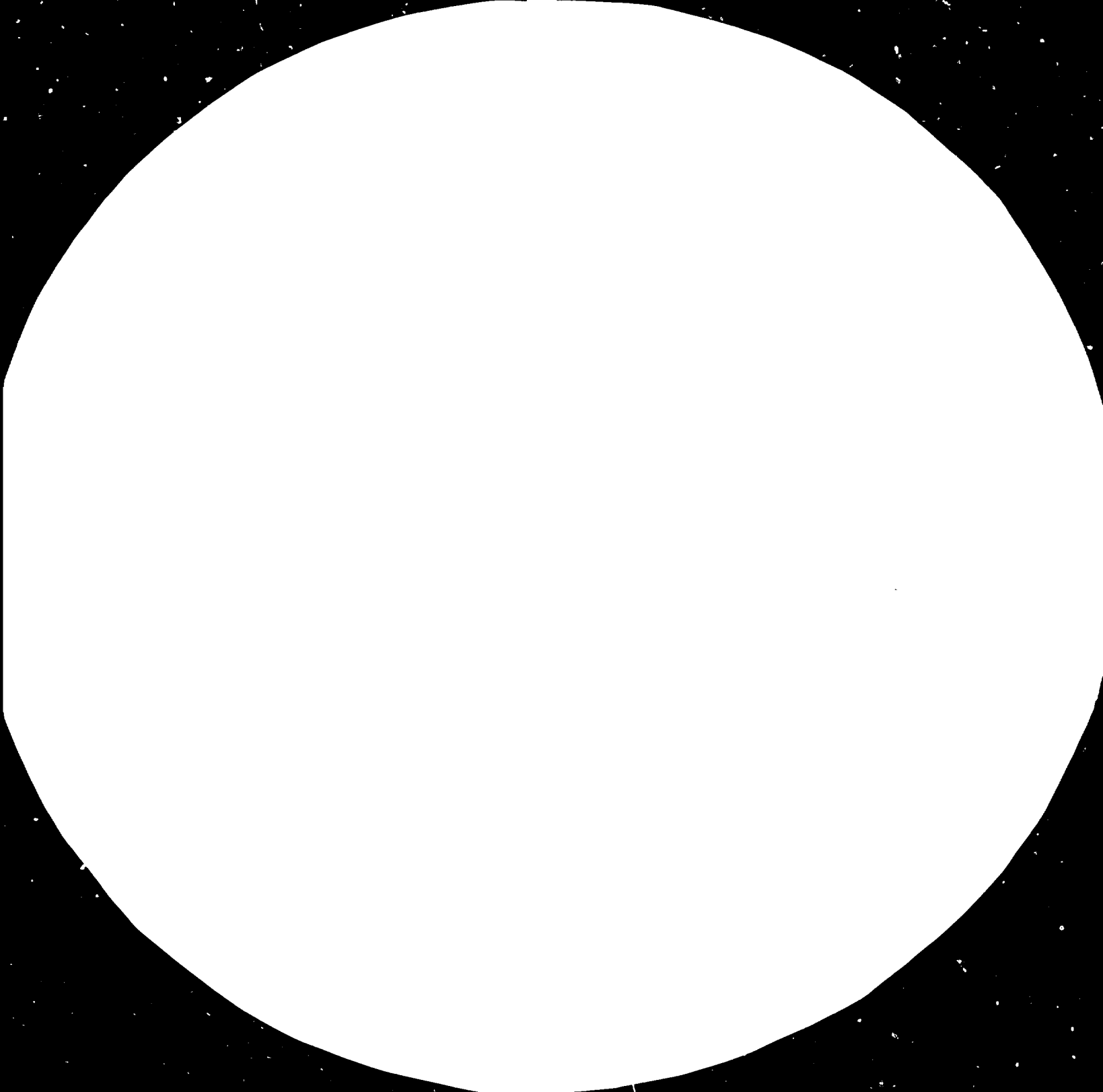
Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
Février, mars et juin 5 jours (stage approfondi à discuter)	Qualifications professionnelles. Français, anglais	-	A fixer
April- November 1985 2 days- 2 weeks	Professional qualification. Portuguese	-	US\$30-US\$80
Julio 1985 2 semanas	Calificación profesional. Español	-	\$US 250
Mayo 1985 2 semanas	Sólidos conocimientos de matemáticas. Español	-	\$US 250
1985	Professional qualification. Spanish and English	-	To be arranged

OTHER TRAINING OPPORTUNITIES AND SHORT COURSES (Cont'd)

Course or seminar	General description	Organizer; Venue
Economic development	The Bank organizes seminars and training courses on such subjects as: projects appraisal and loan administration; organization and management of rural development projects; development banking; public enterprise management; road maintenance.	African Development Bank 01 B.P. 1387 Abidjan 01 Ivory Coast
Industrial production	Short courses on: reliability; maintenance; risk management.	Danish Engineers' Post-Graduate Institute DTH, Bygning 208 2800 Lyngby Denmark
Hydraulic and pneumatic control systems	System selection, units and characteristics; flow principles; hydraulic and pneumatic generators and motors; hydraulic and pneumatic control valves and accessories. Practical control experiments on a wide range of hydraulic, pneumatic and hydropneumatic demonstration equipment.	Engineering and Industrial Design Development Centre Cairo Egypt
Contrôle industriel et qualité, normalisation et analyse de la valeur	Cours sur : les services qualité des entreprises et les logiciels ; maintenance et conception ; analyse de la valeur ; normalisation dans l'entreprise ; comment améliorer l'efficacité de la maintenance ; la gestion des pièces détachées ; le contrat de maintenance ; concepts de qualité ; la qualité de la production ; la qualité aux études, au marketing ; formation à l'audit qualifié ; contrôle de réception et relations clients fournisseurs ; la qualité au moindre coût ; la micro-informatique au service du contrôle qualité ; la fonction qualité dans les PMI/PME.	AFNOR (Association Française de Normalisation) Tour Europe Cedex 7 F-92080 Paris La Défense France en collaboration avec AFCIQ, ACANOR et AFAV

Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
To be arranged	Professional qualification. English, French or Portuguese (available for officials of Member Countries only)	-	To be arranged
To be arranged 1-7 days	Professional qualification. English	-	To be arranged
March 1985 and 1986 3 weeks	Mechanical engineer. English	-	US\$750
Toute l'année 3 jours- 1 semaine	Qualifications professionnelles. Français	-	A fixer

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MICROCOPY RESOLUTION TEST CHART

NATIONAL BUREAU OF STANDARDS  
STANDARD REFERENCE MATERIAL 1910,  
(ANSI) and ISO TEST CHART No. 23

OTHER TRAINING OPPORTUNITIES AND SHORT COURSES (Cont'd)

Course or seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
Management	Cours sur : l'organisation ; les techniques documentaires ; l'informatique ; l'achat d'approvisionnements ; le commerce international ; le métier de formateur ; les professionnels de la formation ; la gestion financière.	CNOF 3, rue Cassette F-75006 Paris France	A arranger 2-6 jours	Qualifications professionnelles. Français	-	A arranger
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 Cologne 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
Papermaking	Symposium on chemical-technological problems encountered in the production of paper and paperboard.	Papiertechnische Stiftung (PTS) Hess-Strasse 130a D-8000 Munich 40 Federal Republic of Germany	23 September 1986 3 days	Professional qualification. English or German	-	To be arranged
PTS coating	Symposium on coating of paper and paperboard; developments; process techniques.	Papiertechnische Stiftung (PTS) Hess-Strasse 130a D-8000 Munich 40 Federal Republic of Germany	24 September 1985 3 days	Professional qualification. English or German	-	To be arranged
Industrial technology	The organization arranges short courses on 23 basic aspects of industrial technology.	Verein Deutscher Ingenieure-Bildungswerk Graf-Recke Strasse 84 D-4000 Düsseldorf Federal Republic of Germany	Throughout year 1-4 days	Professional qualification. German	-	DM 420- DM 820

OTHER TRAINING OPPORTUNITIES AND SHORT COURSES (Cont'd)

Course or seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
Industrial training	On-the-job technical training.	International Association for the Exchange of Students for Technical Experience P.O. Box 3414 Kolonaki Post Office Athens Greece	To be arranged 8-12 weeks	Professional qualification. English	-	-
Management	Short courses organized throughout the year on EDP, finance, general, insurance, marketing, office, personnel, production, smaller business and supply management.	Hong Kong Management Development Centre The Hong Kong Management Association 26 Canal Road West Management House Hong Kong	3-4 times a year 1-5 days	Manager, executive supervisor. English, Chinese	-	To be arranged
Industrial technology	Short courses on: automation technology; textile and garment technology; plastic technology; printing technology; building and construction; micro-computers; basic systems analysis; microprocessors; management techniques.	Hong Kong Productivity Centre World Commerce Centre Harbour City 11 Canton Rd, Kowloon Hong Kong	To be arranged	Technical personnel. English, Chinese	-	To be arranged
Dimension and surface texture measurement, quality control in production	Present knowledge and practice of dimension measurement, surface-roughness measurement, multi-dimensional measurement as well as inspection and quality control of products.	IMEKO Secretariat P.O. Box 457 1371 Budapest 5 Hungary, and Department of Production Engineering Faculty of Engineering University of Alexandria Alexandria Egypt	January 1986 7 days	Professional qualification. English	-	To be arranged
Fertilizers	Courses are organized on all important aspects of fertilizers including marketing, management, development, logistics of distribution, promotion, plant management and maintenance.	The Fertilizer Association of India (FAI) near JNU New Delhi India	Throughout year 6-13 days	Professional qualification. English	-	To be arranged

OTHER TRAINING OPPORTUNITIES AND SHORT COURSES (Cont'd)

Course or seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
Industrial training	Training in chemical plant operation and maintenance.	P.T. Petrokimia Gresik P.O. Box 2 Jl. Jenderal Akhmad Yani Gresik, East Java Indonesia	To be arranged	Professional qualification. Indonesian and English	-	To be arranged
Systems development	The programme is composed of: (a) mandatory courses in practice of project appraisal; economics for development; organization and management; statistics in administration; case exercises; research planning and report writing. (b) Elective courses. (c) In-depth study related to a development project relevant to the employing organization's needs.	Systems Development Programme Trinity College Dublin 2 Ireland	October 12 months	Professional qualification. English	-	US\$6,000 (1984)
Industrial training	The Asian Productivity Organization organizes (or is prepared to organize) seminars and training courses in the following subjects: productive maintenance; systematic problem solving; corporate planning; supervisory development; quality control; agro-industry management; energy management; tools for managerial decision-making; small industries development; productivity measurement and analysis; computer applications in manufacture; project feasibility, appraisal and implementation; production, planning and control; motivation for productivity; office automation; training techniques; senior management consultancy; packaging engineering; foundry technology; 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 1985 and 1986 1-7 weeks	Professional qualification; membership in productivity or similar organization of APO member country. English	3 months before commencement	To be arranged
Corporate Management	Participants will review the basic functions in corporate management such as production, marketing, financing, personnel management, etc. by exposing them to the Japanese experiences. They will also study the human aspect of corporate management such as motivation, leadership, education and training, etc.	The Association for Overseas Technical Scholarship 30-1 Senju Azuma 1-chome, Adachi-ku Tokyo Japan	October 1985 and 1986 2 weeks	Senior executives/directors who are responsible for overall management of an organization in developing countries. English	5 months before commencement of the programme	Y.327,000

OTHER TRAINING OPPORTUNITIES AND SHORT COURSES (Cont'd)

Course or seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
Gestion et administration industrielles	Le Centre organise des cours sur le marketing et la politique commerciale ; le management stratégique ; la conception et réalisation d'un module de formation.	Centre de Formation des Cadres B.P. 170 Antsirabe Madagascar	1985/86 dates à fixer 1 semaine	Qualifications professionnelles. Français	-	A fixer
Management	Short courses on: financial management; store and stock management; maintenance; critical path method; quality control; production planning and control; export financing; import procedures and documentation; budgetary control; cash flow management; costing.	National Productivity Centre Ministry of Trade and Industry Peti Sura 64 Petaling Jaya Malaysia	To be arranged 5 days	Professional qualification. English	-	To be arranged
Industrial production	The Institute organizes short courses on purchasing management; systematic handling analysis; systematic plant maintenance; basis of quality control; business policy and strategy; systematic layout planning; and maintenance.	Technology Transfer (TECTIN) 16B Jln. Kemuja K.L. 22-01 Malaysia	January to October 1 week	Professional qualification. English	-	\$US 500
Industria del petróleo	Cursos sobre: los materiales quimico-resistentes; ingeniería de procesos; tratamiento de efluentes; análisis de fallas; evaluación de proyectos de inversión; los materiales poliméricos en la industria; espectrometría de masas en la industria; técnicas modernas para la administración de proyectos; ingeniería de corrosión; conocimiento del medio ambiente y de la industria del petróleo.	Instituto Mexicano del Petróleo Eje Central Norte Lázaro Cárdenas 152 C.P. 07730 México D.F. México	Varias A discutir	Calificación profesional. Español	-	M\$40,000
Clay products	Technology of structural clay products.	MT-TNO Heat and Refrigeration Engineering Department P.O. Box 342 7300 AH Apeldoorn Netherlands	To be arranged 5-10 days	Professional qualification. English	-	To be arranged

OTHER TRAINING OPPORTUNITIES AND SHORT COURSES (Cont'd)

Course or seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of application	Fee
Industrial engineering	Operations research techniques; production management; maintenance of equipment; vibration and noise control; energy conservation and management; production planning and control; industrial organization and management; quality control; design techniques.	HFF Engineering Limited Taxila Pakistan	October 1 year	Degree in engineering. English	-	Rs.7,000 per annum
Management	Short courses on: corporate financial management; problem solving and decision making skills; office management; leadership effectiveness; management of the training function; production management; managerial accounting; effective communication skills; management of conflict; management by objectives; O & M; development course for managers; maintenance management; basics of marketing planning; field forecasting methods.	Pakistan Institute of Management Shahrah Iran Clifton Karachi-6 Pakistan	Throughout year 1-2 weeks	Professional qualification. English	-	To be arranged
Industrial management	Courses are arranged on: computer orientation and applications; production and maintenance cost control; industrial electronics; computer systems analysis; instrumentation and automatic control; materials handling; fluid storage and transport equipment; combating corrosion; operations planning, scheduling and control; energy conservation; maintenance management; basic programming.	PETROMAN A division of ENAR PETROTECH Services Limited Musarrat Building Sultan Ahmed Shah Rd Off: Shadeed-e-Millat Rd Karachi Pakistan	January- June 1985 5-12 days	Professional qualification. English	-	To be arranged
Housing	Settlements in Africa, housing and construction needs.	IDEP (African Institute for Economic Development and Planning) B.P. 3186 Dakar Senegal in collaboration with WAEP (World Association for Element-Building and Prefabrication) Schlueterstr. 6 D-2000 Hamburg Federal Republic of Germany	1985 To be arranged	Professional qualification. English and French	-	-

OTHER TRAINING OPPORTUNITIES AND SHORT COURSES (Cont'd)

Course or seminar	General description	Organizer; Venue
Implementation of national productivity income and price policy	Productivity and economic growth; labour productivity; productivity and income distribution; national economic survival programme; agricultural policy and rural development strategy; price mechanism and trade; incentive schemes in industry and agriculture; role of productivity institutions and national policy.	National Institute for Productivity P.O. Box 2021 DSM United Republic of Tanzania (Arusha, United Republic of Tanzania)
Management	Short courses on: principles of management; modern management techniques; office management; working capital management; budget management; production planning and control.	Thailand Management Development and Productivity Centre (TMDPC) Rama 6 Rd Bangkok 10400 Thailand
Management	The organization arranges courses in many aspects of training: overseas and senior training officers programmes; identification of training needs; job analysis; training design; training evaluation for cost effective performance; the trainer's role in management self-development.	British Association for Commercial and Industrial Education (BACIE) 16 Park Crescent London W1N 4AP United Kingdom
Basic microcomputer circuit design	Introduction to the basic microelectronics that is fundamental to the design of microcomputer and micro-processor-based systems.	Commonwealth Science Council Marlborough House London SW1Y 5HX United Kingdom (West Indies)
Computer aided design techniques and applications	Basic training in fundamentals of CAD techniques and applications.	Commonwealth Science Council Marlborough House London SW1Y 5HX United Kingdom (Australia)

Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
September 1985 1 week	Professional qualification. English	30 June 1985	To be arranged
To be arranged 5 days	Professional qualification. Thai	-	200 baht
Throughout year 1 day- 12 weeks	Professional qualification. English	-	To be arranged
To be arranged 5 days	Professional qualification. English	-	-
January 1985 5 days	Professional qualification. English	-	-



OTHER TRAINING OPPORTUNITIES AND SHORT COURSES (Cont'd)

Course or seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
Standardization and metrology	Training in basic aspects of standardization and metrology and quality control that are pertinent to industrialization in a developing economy.	Commonwealth Science Council Marlborough House London SW1Y 5HX United Kingdom (Kampala, Uganda)	May 1985 1 week	Professional qualification. English	-	-
Civil engineering	Short courses on: site management training; site management; civil engineering earthmoving; levelling and setting out; paving; civil engineering planning; plant utilization.	Construction Industry Training Board Bircham Newton Training Centre W. King's Lynn Norfolk PE31 6RH United Kingdom	Throughout year 1-2 weeks	Professional qualification. English	-	To be arranged
Furniture technology and production management	Short courses on: upholstery fabrics, foams; frame design; cabiner furniture adhesive; finishing; board materials; plastics; dimensional control; packaging; marketing and sales planning; safety and noise control; costing for profitability; general management problems; productivity improvement techniques; computer studies.	Furniture Industry Research Association Maxwell Road Stevenage Hertfordshire SG1 2EW United Kingdom	Throughout 1985/86 1-10 days	Senior managers with furniture management experience. English	-	£210-£735
Finite element methods for electrical engineers in a CAE environment	The object is to take engineers, with little or no knowledge of this subject through to the point where they are able to model, solve and evaluate results for a range of industrial electromagnetic and electric field problems.	Department of Electrical Engineering Imperial College of Science and Technology London SW7 2AZ United Kingdom	2 January 1985 3 days	Professional qualification. English	-	£375
Microcomputers in chemical instrumentation	All instruction is in BASIC. In addition to providing a review of the use and economics of microcomputers, the subjects covered include the choice of microcomputers, interfacing, the choice of programming languages, text processing, and the choice of peripherals.	Department of Chemistry Imperial College of Science and Technology London SW7 2AZ United Kingdom	March 1985 5 days	Professional qualification. English	-	To be arranged

OTHER TRAINING OPPORTUNITIES AND SHORT COURSES (Cont'd)

Course or seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
Introduction to mineral resources engineering	The object of this course is to provide an insight into the technologies involved in production minerals.	Department of Mineral Resources Imperial College of Science and Technology London SW7 2AZ United Kingdom	Spring 1985 1 week	Professional qualification. English	-	£220
Mine project evaluation	A practical introduction to the evaluation of mineral projects and the use of modelling to develop alternative strategies on which investment decisions can be made.	Department of Mineral Resources Engineering Imperial College of Science and Technology London SW7 2AZ United Kingdom	Spring 1985 1 week	Professional qualification. English	-	£220
Industrial and commercial training	Sharing British training expertise. A programme for training and development specialists from beyond Britain.	Industrial Training Service Limited 73-75 Mortimer Street London W1N 8HX United Kingdom	15 July 1985 and 14 July 1986 3 months	Professional qualification. English	-	£3,500
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 1-5 days	Professional qualification. English	-	To be arranged
Audiology, noise and vibration control	Latest audiological and vestibulometric techniques; introduction to fundamentals of vibration and acoustics.	ISVR, Southampton University Southampton United Kingdom	April to September 1985 1 week	Professional qualification. English	-	£300-£350
Business administration	Short courses in operational research; statistics with emphasis on business applications; computer simulation as used in management science; forecasting for government and industry.	LANCORD Ltd University of Lancaster Bailrigg Lancaster United Kingdom	February, March and November 1985 and 1986 1-2 weeks	Professional qualification. English	-	To be arranged

OTHER TRAINING OPPORTUNITIES AND SHORT COURSES (Cont'd)

Course or seminar	General description	Organizer; Venue
Industrial training	Short and long term courses on: auto-mobile engineering; fabrication of steel/sheet metal; welding; engineering production; building construction; glassfibre fabrication; building materials; electrical and electronic engineering; overseas development industrial training for Third World countries; computerization and robotics.	Loughborough Technical College Radmoor Loughborough Leicestershire LE11 3BT United Kingdom
Corrosion	Courses on: stress corrosion in plant and structures; corrosion engineering and control; high temperature corrosion - theory and practice; corrosion and water industry; corrosion monitoring and inspection; novel and exciting methods for investigating anti-corrosive paints.	University of Manchester I.S.T. Manchester M13 9PL United Kingdom
Microprocessors	Intensive course in the specially equipped microprocessor laboratory using Z80 single board, VDU and 380Z development systems. Practical experiments from elementary sequencing to complex problems in control and instrumentation.	Department of Electrical Engineering University of Manchester Dover Street Manchester M13 9PL United Kingdom
Boatbuilding	The techniques of boatbuilding and the skills necessary to organize and administer a boatbuilding company.	Marine Training and Development Limited Harbour Road Oulton Broad Lowestoft, Suffolk United Kingdom
Production technology	Short courses on: applied pneumatics; industrial hydraulics; electronics; foundry appreciation; cupola control; casting defects; electric melting; casting design; practical metallurgy (ferrous and non-ferrous); foundry technology.	Metcon Training 14 Pall Mall London SW1Y 5LZ United Kingdom

Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
Throughout year To be arranged	Professional qualification. English	-	To be arranged
Throughout 1985 2 days- 7 days	Professional qualification. English	-	To be arranged
4 times per year 10 working days	Professional qualification. English	-	£425
7 January 1985 To be arranged	Professional qualification. English	-	£3,380
Throughout year 3-10 days	Professional qualification. English	-	To be arranged

OTHER TRAINING OPPORTUNITIES AND SHORT COURSES (Cont'd)

Course or seminar	General description	Organizer; Venue	Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
Materials handling	Short courses on: micro-electronics in materials handling; application of micro-electronic control to materials handling system design; redesigning your order picking system; techniques of physical distribution management; warehouse management and industrial relations; warehouse layout and methods; the control of physical distribution; first line supervision in physical distribution; modern warehouse design; unit load handling in manufacture; parts storage system design.	National Materials Handling Centre Cranfield Institute of Technology Cranfield Bedford MK43 0AL United Kingdom	Throughout year 2-4 1/2 days	Professional qualification. English	-	To be arranged
Management	Short courses on: self-management and self-development; and art of management.	P-E Training Services 104a Bartholomew Street Newbury, Berkshire United Kingdom	January and March 1985 1 week	Professional qualification. English	-	£420 excluding accommodation
Industrial tribology	Industrial applications of tribology.	University College of Swansea Department of Mechanical Engineering Swansea SA2 8PP United Kingdom	September 1985 and 1986 To be arranged	Professional qualification. English	-	Approx. £260
Industrial maintenance	Short courses are organized on: planning cost effective industrial maintenance; improving plant performance.	The Wolfson Industrial Maintenance Unit Simon Engineering Laboratories Manchester University Manchester M13 9PL United Kingdom	Easter and Autumn 1985 3 days	Professional qualification. English	-	£300 approx.
Electromagnetic compatibility (E.M.C.)	A short course on the theoretical background of E.M.C. measurements.	The York Electronics Centre University of York York YO1 5DD United Kingdom	To be arranged 2 1/2 days	Professional qualification. English	-	To be arranged
Human-computer interaction	A course on human factors for the computer industry. Subjects covered include human-computer dialogue, design and speech communication.	Department of Psychology University of York Heslington York YO1 5DD United Kingdom	March 1985 3 days	Professional qualification. English	-	£310

OTHER TRAINING OPPORTUNITIES AND SHORT COURSES (Cont'd)

Course or seminar	General description	Organizer; Venue
R & D management	Participants will learn how to apply principles and techniques of productive R & D management in these areas: philosophy of management; planning; organizing; staffing and staff development; directing and leading; evaluating and controlling.	Battelle 505 King Avenue Columbus Ohio 43201 United States of America
Management and communication	Communication and management skills useful on return home to adapt, introduce and effectively implement training acquired abroad. Includes: intro. of 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 (training held in various United States cities)
Measurement systems dynamics and engineering	Measuring dynamic mechanical and thermal quantities by electrical means. Electrical measurement of mechanical quantities.	Stein Engineering Services, Inc. 5602 East Monte Rosa Phoenix, Arizona 85018 United States of America
Management	Short courses are organized on: interpersonal communication skills; supervisory skills training; time management; motivation and leadership; training trainers how to train.	Training Services Department UOP Process Division 20 UOP Plaza Des Plaines, Illinois 60016 United States of America

Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
5 August 1985 18 days	Middle manager in R & D. English	1 July 1985	\$US 2,500 for tuition, lunches, 3 dinners, and course material
8 sessions year around 10 days	Professional qualification. English	-	\$US 380 or \$US 725
March 1985 5 days (each course)	BS degree. English	-	\$US 850 each course \$US 1,550 if taken together
To be arranged 2 days- 2 weeks	Professional qualification. English	-	To be arranged

OTHER TRAINING OPPORTUNITIES AND SHORT COURSES (Cont'd)

Course or seminar	General description	Organizer; Venue
Management with special reference to refineries	Short courses on: project management for owners; management systems for refinery and petrochemical plant laboratories; fundamentals of refinery inspection.	UOP Process Division Customer Systems and Service Department 20 UOP Plaza Des Plaines Illinois 60016 United States of America
Refinery corrosion and fouling control	The course is designed for those involved in corrosion and fouling control on the process side of oil refining plants, with emphasis on areas where liquid water exists.	UOP Process Division Customer Systems and Service Department 20 UOP Plaza Des Plaines Illinois 60016 United States of America
Modern management and supervision	Seminar.	Graduate School, USDA International Programs 600 Maryland Avenue SW Washington, D.C. 20024 United States of America
Measurement in condition based maintenance of machines, technical diagnostics	Measuring techniques in condition monitoring of machines, etc.	Institute for Developing Countries P.O. Box 303 41001 Zagreb Yugoslavia and IMEKO Secretariat P.O. Box 457 1371 Budapest 5 Hungary



Commencing date; Duration	Qualifications; Language requirements	Last date for receipt of applications	Fee
Throughout year 5 days- 2 weeks	Professional qualification. English	-	US\$2,000- US\$5,000
21 May and 23 September 1985 (Des Plaines) 21 October 1985 (Rome Italy) 5 days	Professional qualification. English	-	US\$2,000
Throughout year 4 days (Hong Kong, Singapore, New Delhi, Manila, Cairo, Abu Dhabi, Abidjan, Paris, Lausanne, Cologne, Rome)	Professional qualification. English	-	To be arranged
September 1985 8 days	Professional qualification. English	-	To be arranged

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).

AUSTRALIA	B		BULGARIA	A	
	-	Management and industrial administration		-	Mechanical and metalworking industries
	-	Trainer development		-	Management and industrial administration
AUSTRIA	A			B	
	-	Chemical industries		-	Mechanical and metalworking industries
	-	Environment		-	Automation and data processing
	B			-	Energy
	-	Chemical industries		-	Management and industrial administration
	-	Industrial information and documentation	CAMEROON	A	
BELGIUM	A			-	Maintenance and repair
	-	Chemical industries		-	Management and industrial administration
	-	Textile industries	CHILE	B	
	-	Maintenance and repair		-	Industrial planning and programming
	B			-	Management and industrial administration
	-	Building materials industries	CHINA	A	
	-	Chemical industries		-	Mechanical and metalworking industries
	-	Food processing industries	CUBA	B	
	-	Glass and optical industries		-	Industrial planning and programming
	-	Leather and leather products industries		-	Quality control and standardization
	-	Mechanical and metalworking industries	CZECHOSLOVAKIA	A	
	-	Metallurgical industries		-	Building materials industries
	-	Packaging industries		-	Mechanical and metalworking industries
	-	Textile industries		-	Metallurgical industries
	-	Wood processing and wood products industries		-	Maintenance and repair
	-	Energy	EGYPT	A	
	-	Environment		-	Industrial design
	-	Industrial planning and programming		B	
	-	Investment promotion and industrial financing		-	Mechanical and metalworking industries
	-	Maintenance and repair		-	Industrial design
	-	Management and industrial administration	FINLAND	A	
	-	Quality control and standardization		-	Wood processing and wood products industries
	-	Trainer development		B	
BRAZIL	B			-	Management and industrial administration
	-	Pulp and paper industries			
	-	Energy			
	-	Quality control and standardization			

- FRANCE
- A
  - Industrial planning and programming
  - Investment promotion and industrial financing
  - Maintenance and repair
  - B
  - Chemical industries
  - Food processing industries
  - Leather and leather products industries
  - Energy
  - Industrial information and documentation
  - Management and industrial administration
  - Quality control and standardization
- GERMAN DEMOCRATIC REPUBLIC
- A
  - Chemical industries
  - Printing industries
  - Industrial planning and programming
- GERMANY, FEDERAL REPUBLIC OF, AND BERLIN (WEST)
- B
  - Chemical industries
  - Electrical and electronic industries
  - Printing industries
  - Wood processing and wood products industries
  - Management and industrial administration
  - Marketing and export promotion
  - Quality control and standardization
- HUNGARY
- A
  - Maintenance and repair
  - B
  - Maintenance and repair
  - Trainer development
- INDIA
- B
  - Chemical industries
  - Food processing industries
  - Leather and leather products industries
  - Packaging industries
  - Automation and data processing
  - Energy
  - Environment
  - Industrial information and documentation
  - Industrial planning and programming
  - Maintenance and repair
  - Marketing and export promotion
  - Small-scale industries and entrepreneurship
  - Trainer development

- INDONESIA            B
  - Food processing industries
  
- IRELAND            B
  - Energy
  - Management and industrial administration
  - Trainer development
  
- ISRAEL             B
  - Small-scale industries and entrepreneurship
  
- ITALY               A
  - Glass and optical industries
  - Packaging industries      B
  - Food processing industries
  - Mechanical and metalworking industries
  - Metallurgical industries
  - Automation and data processing
  - Energy
  - Industrial design
  - Maintenance and repair
  - Management and industrial administration
  
- JAPAN               A
  - Management and industrial administration
  - Quality control and standardization      B
  - Automation and data processing
  - Industrial design
  - Management and industrial administration
  - Quality control and standardization
  
- MALAYSIA           B
  - Management and industrial administration
  
- MAURITIUS          B
  - Food processing industries
  
- NETHERLANDS        B
  - Food processing industries
  - Leather and leather products industries
  - Metallurgical industries
  - Textile industries
  - Automation and data processing
  - Energy
  - Industrial planning and programming
  - Management and industrial administration
  - Marketing and export promotion

NETHERLANDS	B	
	-	Quality control and standardization
	-	Small-scale industries and entrepreneurship
PAKISTAN	B	
	-	Building materials industries
	-	Leather and leather products industries
	-	Maintenance and repair
	-	Management and industrial administration
	-	Textile industries
PERU	B	
	-	Investment promotion and industrial financing
PHILIPPINES	A	
	-	Energy
POLAND	A	
	-	Metallurgical industries
	-	Industrial planning and programming
	-	Investment promotion and industrial financing
	B	
	-	Metallurgical industries
	-	Industrial planning and programming
ROMANIA	A	
	-	Chemical industries
	B	
	-	Automation and data processing
	-	Management and industrial administration
	-	Trainer development
SPAIN	B	
	-	Food processing industries
SUDAN	B	
	-	Food processing industries
	-	Management and industrial administration
SWEDEN	B	
	-	Food processing industries
	-	Management and industrial administration
SWITZERLAND	A	
	-	Chemical industries
	B	
	-	Food processing industries
	-	Management and industrial administration

THAILAND

- B
- Automation and data processing
- Environment
- Quality control and standardization

TURKEY

- A
- Building materials industries
- Food processing industries
- Glass and optical industries
- Metallurgical industries
- Textile industries
- B
- Food processing industries

UKRAINIAN SOVIET  
SOCIALIST REPUBLIC

- A
- Mechanical and metalworking industries
- Metallurgical industries

UNION OF SOVIET  
SOCIALIST REPUBLICS

- A
- Chemical industries
- Food processing industries
- Mechanical and metalworking industries
- Industrial information and documentation
- Trainer development

UNITED KINGDOM OF  
GREAT BRITAIN AND  
NORTHERN IRELAND

- B
- Building materials industries
- Chemical industries
- Electrical and electronic industries
- Food processing industries
- Leather and leather products industries
- Mechanical and metalworking industries
- Packaging industries
- Printing industries
- Pulp and paper industries
- Textile industries
- Wood processing and wood products industries
- Automation and data processing
- Environment
- Industrial design
- Industrial planning and programming
- Investment promotion and industrial financing
- Maintenance and repair
- Management and industrial administration
- Quality control and standardization
- Small-scale industries and entrepreneurship
- Trainer development

UNITED REPUBLIC OF TANZANIA      B  
- Management and industrial administration

YUGOSLAVIA

A  
- Maintenance and repair  
- Management and industrial administration

UNITED STATES OF AMERICA      B  
- Automation and data processing  
- Energy  
- Management and industrial administration  
- Marketing and export promotion

ZAMBIA

B  
- Management and industrial administration

UNITED NATIONS AND RELATED ORGANIZATIONS

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS (FAO)  
- Food processing industries  
- Wood processing and wood products industries

INTERNATIONAL MARITIME ORGANIZATION (IMO)  
- Mechanical and metalworking industries

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	- Industrie du bois et des articles en bois - Industrie chimique - Industries électriques et électroniques - Industries graphiques - Contrôle de la qualité et normalisation - Gestion et administration industrielle - Marketing et promotion des exportations
AUSTRALIE	B	- Gestion et administration industrielle - Perfectionnement du personnel enseignant
AUTRICHE	A	- Industrie chimique - Environnement
	B	- Industrie chimique - Information et documentation industrielles
BELGIQUE	A	- Industrie chimique - Industrie textile - Entretien et réparation
	B	- Industrie alimentaire - Industrie du bois et des articles en bois - Industrie chimique - Industrie du cuir et des articles en cuir - Industrie de l'emballage - Industrie des matériaux de construction - Industrie de construction mécanique et de transformation des métaux - Industrie métallurgique - Industrie textile - Industrie de la verrerie et de l'optique - Contrôle de la qualité et normalisation
BELGIQUE	B	- Energie - Entretien et réparation - Environnement - Gestion et administration industrielle - Perfectionnement du personnel enseignant - Planification et programmation industrielles - Promotion des investissements et financement industriel
BRESIL	B	- Industrie de la pâte à papier et du papier - Contrôle de la qualité et normalisation - Energie
BULGARIE	A	- Industrie de construction mécanique et de transformation des métaux - Gestion et administration industrielle
	B	- Industrie de construction mécanique et de transformation des métaux - Automatisation et traitement des données - Energie - Gestion et administration industrielle
CAMEROUN	A	- Entretien et réparation - Gestion et administration industrielle
CHILI	B	- Gestion et administration industrielle - Planification et programmation industrielles
CHINE	A	- Industrie de construction mécanique et de transformation des métaux
CUBA	B	- Contrôle de la qualité et normalisation - Planification et programmation industrielles



EGYPTE	A	- Design industriel
	B	- Industrie de construction mécanique et transformation des métaux
		- Design industriel
ESPAGNE	B	- Industrie alimentaire
ETATS UNIS D'AMERIQUE	B	- Automatisation et traitement des données
		- Energie
		- Gestion et administration industrielle
		- Marketing et promotion des exportations
FINLANDE	A	- Industrie du bois et des articles en bois
	B	- Gestion et administration industrielle
FRANCE	A	- Entretien et réparation
		- Planification et programmation industrielles
		- Promotion des investissements et financement industriel
	B	- Industrie alimentaire
		- Industrie chimique
		- Industrie du cuir et des articles en cuir
		- Contrôle de la qualité et normalisation
		- Energie
		- Gestion et administration industrielle
		- Information et documentation industrielles
HONGRIE	A	- Entretien et réparation
	B	- Entretien et réparation
		- Perfectionnement du personnel enseignant
INDE	B	- Industrie alimentaire
		- Industrie chimique
		- Industrie du cuir et des articles en cuir
		- Industrie de l'emballage
		- Automatisation et traitement des données
		- Energie
		- Entretien et réparation

INDE	B	- Environnement - Information et documentation industrielles - Marketing et promotion des exportations - Perfectionnement du personnel enseignant - Petites industries et entrepreneurs - Planification et programmation industrielles
INDONESIE	B	- Industrie alimentaire
IRLANDE	B	- Energie - Gestion et administration industrielle - Perfectionnement du personnel enseignant
ISRAEL	B	- Petites industries et entrepreneurs
ITALIE	A	- Industrie de l'emballage - Industrie de la verrerie et de l'optique
	B	- Industrie alimentaire - Industrie de construction mécanique et de transformation des métaux - Industrie métallurgique - Automatisation et traitement des données - Design industriel - Energie - Entretien et réparation - Gestion et administration industrielle
JAPON	A	- Contrôle de la qualité et normalisation - Gestion et administration industrielle
	B	- Automatisation et traitement des données - Contrôle de la qualité et normalisation - Design industriel - Gestion et administration industrielle
MALAISIE	B	- Gestion et administration industrielle
MAURICE	B	- Industrie alimentaire

PAKISTAN	B	<ul style="list-style-type: none"> <li>- Industrie des matériaux de construction</li> <li>- Industrie du cuir et des articles en cuir</li> <li>- Entretien et réparation</li> <li>- Gestion et administration industrielle</li> <li>- Industrie textile</li> </ul>
PAY-BAS	B	<ul style="list-style-type: none"> <li>- Industrie alimentaire</li> <li>- Industrie du cuir et des articles en cuir</li> <li>- Industrie métallurgique</li> <li>- Industrie textile</li> <li>- Automatisation et traitement des données</li> <li>- Contrôle de la qualité et normalisation</li> <li>- Energie</li> <li>- Gestion et administration industrielle</li> <li>- Marketing et promotion des exportations</li> <li>- Petites industries et entrepreneurs</li> <li>- Planification et programmation industrielles</li> </ul>
PEROU	B	<ul style="list-style-type: none"> <li>- Promotion des investissements et financement industriel</li> </ul>
PHILIPPINES	A	<ul style="list-style-type: none"> <li>- Energie</li> </ul>
POLOGNE	A	<ul style="list-style-type: none"> <li>- Industrie métallurgique</li> <li>- Planification et programmation industrielles</li> <li>- Promotion des investissements et financement industriel</li> </ul>
	B	<ul style="list-style-type: none"> <li>- Industrie métallurgique</li> <li>- Planification et programmation industrielles</li> </ul>
REPUBLIQUE DEMOCRATIQUE ALLEMANDE	A	<ul style="list-style-type: none"> <li>- Industrie chimique</li> <li>- Industries graphiques</li> <li>- Planification et programmation industrielles</li> </ul>
REPUBLIQUE SOCIALISTE SOVIETIQUE D'UKRAINE	A	<ul style="list-style-type: none"> <li>- Industrie de construction mécanique et de transformation des métaux</li> <li>- Industrie métallurgique</li> </ul>
REPUBLIQUE UNIE DE TANZANIE	B	<ul style="list-style-type: none"> <li>- Gestion et administration industrielle</li> </ul>

## ROUMANIE

- A
- Industrie chimique
- B
- Automatisation et traitement des données
- Gestion et administration industrielle
- Perfectionnement du personnel enseignant

ROYAUME-UNI DE  
GRANDE-BRETAGNE ET  
D'IRLANDE DU NORD

- B
- Industrie alimentaire
- Industrie du bois et des articles en bois
- Industrie chimique
- Industrie des matériaux de construction
- Industrie de construction mécanique et de transformation des métaux
- Industrie du cuir et des articles en cuir
- Industries électriques et électroniques
- Industrie de l'emballage
- Industries graphiques
- Industrie de la pâte à papier et du papier
- Industrie textile
- Automatisation et traitement des données
- Contrôle de la qualité et normalisation
- Design industriel
- Entretien et réparation
- Environnement
- Gestion et administration industrielle
- Perfectionnement du personnel enseignant
- Petites industries et entrepreneurs
- Planification et programmation industrielles
- Promotion des investissements et financement industriel

## SOUDAN

- B
- Industrie alimentaire
- Gestion et administration industrielle

## SUEDE

- B
- Industrie alimentaire
- Gestion et administration industrielle

## SUISSE

- A
- Industrie chimique
- B
- Industrie alimentaire
- Gestion et administration industrielle

TCHÉOSLOVAQUIE

- A
- Industrie des matériaux de construction
  - Industrie de construction mécanique et de transformation des métaux
  - Industrie métallurgique
  - Entretien et réparation

THAÏLANDE

- B
- Automatisation et traitement des données
  - Contrôle de la qualité et normalisation
  - Environnement

TURQUIE

- A
- Industrie alimentaire
  - Industrie des matériaux de construction
  - Industrie métallurgique
  - Industrie textile
  - Industrie de la verrerie et de l'optique
- B
- Industrie alimentaire

UNION DES  
REPUBLICS  
SOCIALISTES  
SOVIETIQUES

- A
- Industrie alimentaire
  - Industrie chimique
  - Industrie de construction mécanique et de transformation des métaux
  - Information et documentation industrielles
  - Perfectionnement du personnel enseignant

YOUGOSLAVIE

- A
- Entretien et réparation
  - Gestion et administration industrielle

ZAMBIE

- B
- Gestion et administration industrielle

NATIONS UNIES ET ORGANISATIONS APPARENTÉES

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

- Industrie alimentaire
- Industrie du bois et des articles en bois

ORGANISATION MONDIALE DE LA PROPRIÉTÉ INTELLECTUELLE (OMPI)

- Information et documentation industrielles

ORGANISATION MARITIME INTERNATIONALE (OMI)

- Industrie de construction mécanique et de transformation des métaux

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		BELGICA	B	
	-	Industrias eléctricas y electrónicas		-	Control de calidad y normalización
	-	Industrias gráficas		-	Desarrollo de profesionales de capacitación
	-	Industrias de elaboración de la madera y de productos de madera		-	Energía
	-	Industrias químicas		-	Gestión y administración industrial
	-	Comercialización y promoción de las exportaciones		-	Mantenimiento y reparación
	-	Control de calidad y normalización		-	Medio ambiente
	-	Gestión y administración industrial		-	Planeamiento y programación industrial
				-	Promoción de las inversiones y financiación industrial
AUSTRALIA	B		BRASIL	B	
	-	Desarrollo de profesionales de capacitación		-	Industrias de la celulosa y el papel
	-	Gestión administración industrial		-	Control de calidad y normalización
				-	Energía
AUSTRIA	A		BULGARIA	A	
	-	Industrias químicas		-	Industrias mecánicas y de transformación de metales
	-	Medio ambiente		-	Gestión y administración industrial
	B			B	
	-	Industrias químicas		-	Industrias mecánicas y de transformación de metales
	-	Información y documentación industriales		-	Automatización y procesamiento de datos
BELGICA	A			-	Energía
	-	Industrias químicas		-	Gestión y administración industrial
	-	Industrias textiles			
	-	Mantenimiento y reparación		CUBA	B
	B			-	Control de calidad y normalización
	-	Industrias alimentarias		-	Planeamiento y programación industrial
	-	Industrias del cuero y de los productos de cuero			
	-	Industrias relacionadas con el embalaje		CHECOSLOVAQUIA	A
	-	Industrias de elaboración de la madera y de productos de madera		-	Industrias de los materiales de construcción
	-	Industrias de los materiales de construcción		-	Industrias mecánicas y de transformación de metales
	-	Industrias mecánicas y de transformación de metales		-	Industrias metalúrgicas
	-	Industrias metalúrgicas		-	Mantenimiento y reparación
	-	Industrias químicas			
	-	Industrias textiles		CHILE	B
	-	Industrias del vidrio y ópticas		-	Gestión y administración industrial
				-	Planeamiento y programación industrial

CHINA	A	- Industrias mecánicas y de transformación de metales
EGIPTO	A	- Diseño industrial
	B	- Industrias mecánicas y de transformación de metales
		- Diseño industrial
ESPAÑA	B	- Industrias alimentarias
ESTADOS UNIDOS DE AMERICA	B	- Automatización y procesamiento de datos
		- Comercialización y promoción de las exportaciones
		- Energía
		- Gestión y administración industrial
FILIPINAS	A	- Energía
FINLANDIA	A	- Industrias de elaboración de la madera y de productos de madera
	B	- Gestión y administración industrial
FRANCIA	A	- Mantenimiento y reparación
		- Planeamiento y programación industrial
		- Promoción de las inversiones y financiación industrial
	B	- Industrias alimentarias
		- Industrias del cuero y de los productos de cuero
		- Industrias químicas
		- Control de calidad y normalización
		- Energía
		- Gestión y administración industrial
		- Información y documentación industriales
HUNGRÍA	A	- Mantenimiento y reparación

- HUNGRIA B
- Desarrollo de profesionales de capacitación
  - Mantenimiento y reparación
- INDIA B
- Industrias alimentarias
  - Industrias del cuero y de los productos de cuero
  - Industrias relacionadas con el embalaje
  - Industrias químicas
  - Automatización y procesamiento de datos
  - Comercialización y promoción de las exportaciones
  - Desarrollo de profesionales de capacitación
  - Energía
  - Información y documentación industriales
  - Mantenimiento y reparación
  - Medio ambiente
  - Pequeñas industrias y los empresarios
  - Planeamiento y programación industrial
- INDONESIA B
- Industrias alimentarias
- IRLANDA B
- Desarrollo de profesionales de capacitación
  - Energía
  - Gestión y administración industrial
- ISRAEL B
- Pequeñas industrias y los empresarios
- ITALIA A
- Industrias relacionadas con el embalaje
  - Industrias del vidrio y ópticas
- B
- Industrias alimentarias
  - Industrias mecánicas y de transformación de metales
  - Industrias metalúrgicas
  - Automatización y procesamiento de datos
  - Diseño industrial
  - Energía
  - Gestión y administración industrial
  - Mantenimiento y reparación



- JAPON
- A
  - Control de calidad y normalización
  - Gestión y administración industrial
  - B
  - Automatización y procesamiento de datos
  - Control de calidad y normalización
  - Diseño industrial
  - Gestión y administración industrial
- MALASIA
- B
  - Gestión y administración industrial
- MAURICIO
- B
  - Industrias alimentarias
- PAISES BAJOS
- B
  - Industrias alimentarias
  - Industrias del cuero y de los productos de cuero
  - Industrias metalúrgicas
  - Industrias textiles
  - Automatización y procesamiento de datos
  - Comercialización y promoción de las exportaciones
  - Control de calidad y normalización
  - Energía
  - Gestión y administración industrial
  - Pequeñas industrias y los empresarios
  - Planeamiento y programación industrial
- PAKISTAN
- B
  - Industrias del cuero y de los productos de cuero
  - Industrias de los materiales de construcción
  - Gestión y administración industrial
  - Mantenimiento y reparación
  - Industrias textiles
- PERU
- B
  - Promoción de las inversiones y financiación industrial
- POLONIA
- A
  - Industrias metalúrgicas
  - Planeamiento y programación industrial
  - Promoción de las inversiones y financiación industrial

POLONIA B  
 - Industrias metalúrgicas  
 - Planeamiento y programación industrial

REINO UNIDO DE GRAN BRETAÑA E IRLANDA DEL NORTE B  
 - Industrias alimentarias  
 - Industrias de la celulosa y el papel  
 - Industrias de los materiales de construcción  
 - Industrias del cuero y de los productos de cuero  
 - Industrias relacionadas con el embalaje  
 - Industrias gráficas  
 - Industrias eléctricas y electrónicas  
 - Industrias de elaboración de la madera y de productos de madera  
 - Industrias mecánicas y de transformación de metales  
 - Industrias químicas  
 - Industrias textiles  
 - Automatización y procesamiento de datos  
 - Control de calidad y normalización  
 - Desarrollo de profesionales de capacitación  
 - Diseño industrial  
 - Gestión y administración industrial  
 - Mantenimiento y reparación  
 - Medio ambiente  
 - Pequeñas industrias y los empresarios  
 - Planeamiento y programación industrial  
 - Promoción de las inversiones y financiación industrial

REPUBLICA DEMOCRATICA ALEMANA A  
 - Industrias gráficas  
 - Industrias químicas  
 - Planeamiento y programación industrial

REPUBLICA SOCIALISTA SOVIETICA DE UCRANIA A  
 - Industrias mecánicas y de transformación de metales  
 - Industrias metalúrgicas

REPUBLICA UNIDA DEL CAMERUN A  
 - Gestión y administración industrial  
 - Mantenimiento y reparación

REPUBLICA UNIDA DE TANZANIA	B -	Gestión y administración industrial	TURQUIA	A -	Industrias alimentarias
RUMANIA	A -	Industrias químicas		-	Industrias de los materiales de construcción
	B -	Automatización y procesamiento de datos		-	Industrias metalúrgicas
	-	Desarrollo de profesionales de capacitación		-	Industrias textiles
	-	Gestión y administración industrial		-	Industrias del vidrio y ópticas
SUDAN	B -	Industrias alimentarias	UNION DE REPUBLICAS SOCIALISTAS SOVIETICAS	B -	Industrias alimentarias
	-	Gestión y administración industrial		-	Industrias mecánicas y de transformación de metales
SUECIA	B -	Industrias alimentarias		-	Industrias químicas
	-	Gestión y administración industrial		-	Desarrollo de profesionales de capacitación
SUIZA	B -	Industrias alimentarias		-	Información y documentación industriales
	-	Gestión y administración industrial	YUGOSLAVIA	A -	Gestión y administración industrial
TAILANDIA	B -	Automatización y procesamiento de datos		-	Mantenimiento y reparación
	-	Control de calidad y normalización	ZAMBIA	B -	Gestión y administración industrial
	-	Medio ambiente			

## NACIONES UNIDAS Y ORGANIZACIONES CONEXAS

- ORGANIZACION DE LAS NACIONES UNIDAS PARA LA AGRICULTURA Y LA ALIMENTACION (FAO)
- Industrias alimentarias
  - Industrias de elaboración de la madera y de productos de madera
- ORGANIZACION MUNDIAL DE LA PROPIEDAD INTELECTUAL (OMPI)
- Información y documentación industriales
- ORGANIZACION MARITIMA INTERNACIONAL (OMI)
- Industrias mecánicas y de transformación de metales

