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United Nations Industrial Development Organization

Meeting of In-plant Group Training Directors

Vienna, 2-6 September 1974

POST PROGRAMME EVALUATION 1

prepared by the Secretariat of UNIDO

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UNIDO has initiated a post programme evaluation by questionnaire which are sent to former participants between one and two years after the completion of the training programme. For the programmes carried out in 1969 to 1971 UNIDO has sent out 487 questionnaires of which 260 were completed and returned by former participants.

A compilation of the reply and an analysis programme by programme, as well as a consolidated one are made; those by programme have been or will be presented to each individual training director. following text is the consolidation of all replies irrespective of programme. The questionnaire itself is given in Annex I and the tabulation of replies in Annex II. The figures in brackets refer to question numbering of the questionnaire.

Present employment of the former participants (questions 6 and 7):

The great majority (94%) of the respondents were employed at the moment of the survey in the same company or institution as before attending the training programme; almost 50% were promoted. Only 14 individuals changed their employment.

Notable exceptions are the programmes:

- Maintenance (Italy 1971): none of the 6 repondents was promoted (yet)
- Metalworking Industry (USSR) and from and Greel (USSR): about 65% of the respondents had received a promotion since their return home.

Impact of the training programme on participant and his company (question 5 to 9):

- (9) The great majority of the number of respondents replied that:
 - 1. More experience in their own field (86,)
 - 2. Acquisition of a new skill (72,)
 - 3. More prestige (52.4)

were the three main personal gains (in that order) as a result of the

participation in the training programme.

Roughly a quarter montion d also (in that end 2)

- 1. Higher position
- 2. Higher salary
- 3. No change (18 individuals)

An exception is the programme Standardization (USSR) where more "prestige" comes second and "the acquisition of a new skill" comes third.

Note: There is a certain discrepancy in the response in regard to promotions. From question 7 it is learnt that roughly half of the former participants were promoted, while sub-question 9 shows that only a quarter mentioned that they work in higher positions.

A possible explanation is:

- (i) A higher position is not necessarily considered as a promotion.
- (ii) In question 9 is asked what the participant considers as the effect of the training: obviously a quarter of the participants got a higher position as a result of attending the training, while the promotion obtained is not necessarily considered as an effect of attending the training programme.
- (10) The great majority of the respondents felt that the experience gained through the training programme made them:
 - 1. Detter equipped for their work (864)
 - 2. Able to advise others(785)
 - 3. Able to introduce new techniques and systems (54.') (without exception in that order)

Eighteen participants (7%) also mentioned items such ass

- Better organization
- Wide. view of the industry concerned
- Better idea of management.

(11) Almost three-quarters of the respondents could use their newly acquired knowledge and experience immediately after their return home.

Those who could use their new knowledge immediately (28%), mentioned the following time lapses before they could apply it:

- 3 to 6 months (about 2/3)
- 1 to 2 years (about 1/3)
- (12) Most participants (84% of the respondents) indicated that they could transfer their experience and knowledge through lectures, reports, meetings or daily work within their company. There is little variation in response between the different programmes.
- (13) About one-third of the of the respondents were or had been engaged in actual training of other persons within their company or institution.

Exceptionally high score: Plastic Technology(Austria): 10 ex-participants out of a total of 18 were actually engaged in the training of others and Pulp and Paper (Sweden): 11 out of 19 trained others.

The following table gives the distribution of the answers according to the approximate number of persons trained and the average duration of the training period.

Teble 1

Number of trainees	less than a	1-4 weeks	1-4 months	5 months to a year	more than
100 and more		1	6	2	1
20 - 99	2	5	10	5	1
5 - 19	x	6	7	2	-
less than 5		2	5	1	1

^{14.} Those participants who introduced new techniques or systems in their industries with which they are employed (54') were asked to state the binefits:

- 1. "Increase of quality of products"
- 2. "Reduction of cost"

Both were mentioned by a little more than one third of the respondents.

3. "Increase of output or quantity of products! was indicated by approximately one-quarter of the respondents.

Several participants felt that question (14) and (15) did not apply to their situation or that they were not (yet) in a position to introduce new techniques, which explains the relative low number of answers (approx. 54%) on both questions. This is also partly due to the nature of the programme concerned.

Seventeen participants also specified:

- "More efficiency"
- "Better utilization of production methods"
- "More understanding of production methods"
- "Saved time"

as the results of the participation in the training programme.

- (15) About 42% of the respondents had difficulties with the introduction of new techniques, processes or systems in their home industries. The major reasons given were:
 - 1. Lack of machinery
 - 2. Lack of trained personnel
 - 3. Lack of funds
 - 4. Resistance to change

(The order varies often but the percentages remain fairly constant).
Twelve individuals (5%) also indicated:

- Local reasons (social-historical)
- Political economical reasons
- Lack of fore on currency for machine import
- No responsible position
- Defiance of top management

The following table give the geographical distribution of the specified answers (in specific regions of the world):

Table 2

	Lack of trained personnel	Lack of of machinery	Lack of funds	Resistance to change	Total
Africa	12	9	7	4	3 2
Asia and Far Bast	22	27	19	13	81
Middle East and Mediterranean	9	7	5	5	26
Latin America	11	6	7	11	61
Europe	3	7	5	3	18
Total:	57	56	43	36	192

(16) The majority (61;) of the respondents reported that they could also pass on their knowledge and experience acquired during the training programme through lectures, reports or conferences outside their employing organization.

Significant exceptions:

- Iron and Steel (USSR) only 16 out of 38; and
- Maintenance (Sweden) only 9 out of 21 could pass on their knowledge to outside organization, which may be explained by the fact that these i rmer participants are employed with large industrial complexes, hence the transfer of obtained knowledge is confined to within the company.
- (17) Although all former participants are employed with industry, about a quarter (23%) of the respondents were or had been actually engaged in teaching or training other persons outside their company (no significant exceptions).

The following table (table 3) shows the distribution of the answers according to the approximate number of persons trained and average duration of the training period:

Table 3

Number of trainees	less than a week	1-4 weeks	1-4 months	to 1 yr.	
100 and more	-	2	3	_)
20 - 9 9	3	ς,	4	1	
5 - 19	.‡	5	5	5	_
less than 5	-	1	1	1	_

(18) About two-thirds of the respondents could advise companies or institutions other than their own.

Evaluation of training programme by participant

(19) 60% of the respondents answered positively to the question whether the training programme did meet their expectations.

Note: 18% had some reservations and 16% answered that the training programme was not fully up to what they had expected.

The major reasons given by the last two groups are (in order of frequency)

- 1. the training programme is too wide and too general; it misses some particular aspects; and it is not adapted to the individual needs
- 2. the level of training is the low and preparations insufficient
- 3. the training does not provide enough practical work time
- 4. teaching and learning problems, such as: lack of supervision, language barrier, etc.
- (20) More than half of the respondents (55%) thought that the duration of the training period was adequate; less than a third (32%) felt it was too short and only 17% indicated "too long".

The following table gives the distribution of the answers concerning a suitable duration of trainings

Table 4

Yumber of answers	1	14	15	6	3	30	9	15
Duration of training	1m	2m	3m	4m.	5m	Sm −	6-11	m 1 year or more

(21) and (22)

- 21% of the respondents found the training too practical
- 43% of the respondents found the training too theoretical
- Conversely, the majority indicated the training was neither too practical nor too theoretical.
- (23) In terms of what the ex-participants intended to do after their return, more than half (52%) could accomplish a considerable part, a quarter (25%) accomplished nearly everything, while only 20% could do nothing or little.

Little more than half of those who failed (28 persons) to carry out everything they intended, mentioned reasons referring to the training programme and the selection of participants (i); the other 25 persons stated difficulties connected with the home company or country (ii).

- (i) reasons referring to trainin programme and selection of participents (in order):
 - 1. training too short and too general
 - 2. Laining too theoretical and not applicable (to local conditions)
 - 3. training of little use because working in another field
 - 4. no actual working visits to plants
 - 5. language barrier
 - 6. training not up-to-date
 - 7. technical information, hand-out in English insufficient
 - 8. miscellaneous (group too haterogeneous, not enough supervision, not engough preparation, low level, etc.).

- (ii) difficulties connected with the company or country (in order):
 - 1. lack of equipment
 - 2. political economical easons
 - 3. top not co-operative
 - 4. lack of funds
 - 5. lack of time
 - 6. resistance to change
 - 7. lack of skilled personnel.
- (24) More than three quarters (76%) of the respondents consider up-dating and refresher courses essential to prevent their knowledge from becoming obsolete.

Table (5) gives the distribution of the answers according to the length of up-dating intervals mentioned:

Table 5

Length of interval	up to 3 months	6m	1 year	2у	3 y	4 y	5 <i>y</i>	6.y
Number of answers	ડ	G	37	5 8	2 5	12	16	2

⁽²⁶⁾ Suggestions for improvement - Finally the former participants were asked to state suggestions for making the programme more effective. These can be suitably grouped as follows:

I. Action required by UNIDO (55 replies; 21%)

A1 Action before training (16 replies; %)

A number of former participants asked that more information concerning the training programme and even some literature (sripts, handouts, etc...) should be sent in advance; some also requested more information about the host country and language courses.

- A2 Selection and group composition (24 replies; 9%)

 It was felt that the selection procedure should take (more)
 account of:
 - (i) the participants' language ability (English)
 - (ii) his level of education, knowledge, and experience
 - (iii) he should be taken from the same occupation or profession
 - (iv) the group should be as homogeneous as possible(age, profession, knowledge, experience, etc.)(10 replies;
- A3 Action after completion of the training (15 replies; 6%)
 The training was thought to become more and longer effective
 if:
 - (i) UNIDO would supply the ex-participants with up-to-date information in their field of work (technical bulletins, records or reports of meetings, etc.)
 - (ii) UNIDO would ask ex-participants to send follow-up reports on their accomplishments
 - (iii) UNIDO would organize refresher courses and courses providing supplementary specialized knowledge
 - (iv) UNIDO would support ex-trainees in the implementation of the acquired knowledge (talks with top management in seminars, etc.).
- II. Suggestions regarding general aspects of training (32 replies; 12%)
 - B1 Selection of host country (10 replies; 4%)

 Ten ex-participants noted that UNIDO training courses or refresher courses should be held in other countries with different social and industrial conditions.
 - B2 Level of training (1) replies; 4%)
 Ten ex-participants thought that the level of training should
 be higher, the methods and plants more up-to-date and the whole
 of the training more serious.

B) Organization of the training programme () the plans; 50) Eleven ex-participants found that the training should be more strictly programmed and organized in a different way.

III. Buggestions or specific aspects of the training (146 replies; ')

C1 Specialization (25 replies; 10%)
It was felt by 25 ex-participants that the training programme was too general and covering a tec broad field, and that it should be more specialized so that at least one subject could be studied in depth and detail.

C2 Selection of subjects (32 replies; 12/6) Thirty-two ex-participants mentioned that

- (i) the training should include some other particular subjects (16); mostly manarement aspects of the industry ocncerned
- (ii) the participants should be free to study extensively one specific subject of his own interest (9)
- (iii) the training should be better adapted to the individual needs (7).

Co Applicability (9 replies: 3 %)

Nine participants suggested that

- (1) the training should be more applicable to the conditions in their home countries
- (ii) there should be regional seminars.

C4 Practical study (41 replies; 16%)

A great number of experticipants (41) thought that

- (i) the training programms should cover more practical subjects
- (ii) the programme should provide more opportunities for active participation and on-the-job training.

- elouid service of the conservation parets and fretories elouid services or selected in modern and various elouid. In les vi its, so tours the violets).
- Threen experticipant felt that the teaching and supervalion was not fully actisfactory (eleger supervision, more modern to chicamethods; more contacts).
- of Lengue training (1) replies: (2)

 Fifteer ex-participants thought that language courses given perfore the be insing of training or during training would be useful.

W. Secretions regarding living conditions (20 replies; 87)

- Of Slipendo (/ realies; 30)
 Seven of -participano Sala that they required more money to
 cover their expenses during training.
- De lecommodation (Sperlies; Zi)

 The other had exclose with sheir accommodation and asked that it should be improved.
- Imong the other topics mentioned were:
 - more nocial contacta
 - Slice too dold in winter
 - tedious formulities
 - there should be more opportunities to travel.

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EVALUATION OF UNIDO IN-PLANT GROUP TRAINING PROGRAMMES

A.	Background:
	1. Name:
	2. Home country:
	3. Programme:
	4. Host country: Year:
	5. Mailing address:
В.	Present Employment:
	6. Are you employed with the same company (agency,
	institution etc.) as during the time you participated
	in the training programme?
	If no: Where are you at present employed?
	Same field but different company (agency, institution)
	Different field (please specify)
	Dienes manh man - August militaria
	Please state reason for changing company (agency,
	institution or field)
	•••••••••••
	7. Have you since your return in your home country been
	promoted (holding a more important position)?
	8. What is your present position? Please be as specific as possible
	••••••••••••••••••••••

c.	Impact of training programme a yourself and on company larency,
	institution):
	9. What do you consider as the effect of the training programme
	on yourself (mark all that apply):
	nore experience in your own field
	learned new skill, new field
	moved to higher position
	received higher calary
	mure prestige
	no change
	negative impact (please explain)
	••••••••••••
	•••••••••••••••••••
	10. To what extent could you make use of the experience gained through
	the training programme (mark all that apply):
	I am better equipped for my own work
	I can advise others
	I am introducing new techniques, processes, systems
	in my company (agency, institution)
	other (please specify)
	11. After you returned from your training programme were you in a
	position to make use of your newly acquired knowledge and
	experience immediately?
	yes E no
	If no, how much time elapsed before you were able to make use
	of your newly abquired knowledge and experience?
	12. Could you pass on your experience/knowledge through lectures.
	reports or meetings within your company (agency, institution)?
	yes no

13. Have you need engined in teaching or triansis other persons
in the company (agency, anniatution, in the field of your
etudy?
If yes, approximate number of persons trainined
avorage length of training period
14. If you have introduced new techniques, processes, systems, what
has been the benefite?
increase of quality (of products)
increase of quantity (of products and/or output)
reduction of cost
other, please specify
15. If you introduced new techniques, processes, systems, were there
difficulties involved within your company (agency, institution)?
If yes, what was the reason? (mark all that apply)
leck of funds
lack of trained personnel
lack of machinery, equipment
resistance to change within company
(agency, institution)
Other, please specify

impact outside of your own commany (agency, institution):
16. Could you page on your experience/knowledge through lectures,
reports of participalion in conferences?
17. Have you been engaged in teaching or training other persons
is the field of your study?
If yes, approximate number of persons trained
average length of training period

D.

	18. Could you advise other compastes, agencies, anditutions
	in the field of your study?
	yen no
B.	Imination of Valetas processes
	19. In retrospection, did the training it gramme meet your
	expectations?
	If so, what are the reasons?

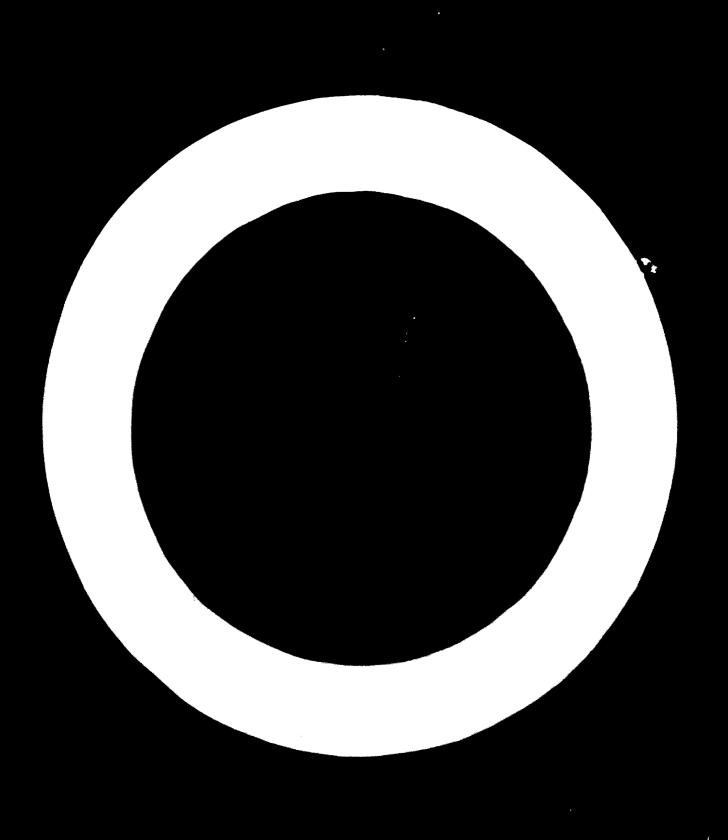
	20. Do you consider the length of the training period to bet
	ton short adequate see 1449
	if too short or too long, what, in your upinion, would be
	outtable length of training?
	21. Wes the training too practically oriented?
	yes — =
	•
	22. Mur the training too theoretically oriented?
	23. In terms of what you intended to do after the end of the
	training programme how would you evaluate your accomplishments
	makin want field of a war?
	I could accomplish nothing or only very little
	I could accomplish a considerable part
	I could accomplish nearly everything
	If you checked "nothing or very little" or "a considerable part"
	what do you believe are the most important reasons that you
	could not accomplish nearly everything you intended to do?
	•••••••••••
	••••••••••••

24.	In the kind of work you perform, do you concider up-dating
	corential to prevent your annuladge from becoming obsoletes
	yes no
	If yes during what riervals?
25.	Did your family receive satisfactory monetary support during
	the period of your training?
	has your position in your country held open for you during
	the period of your training?
	Other problems (please specify)
	••••••••••••••
26.	. Do you have any suggestions for making the programme more
	effective?

	• • • • • • • • • • • • • • • • • • • •

Completed questionnaire to be returned to:

Industrial Training Section USIO
P.O. Box 707
A-1011 Vienna
AUSTRIA



Evaluation of In-Plant Group Training Programmes

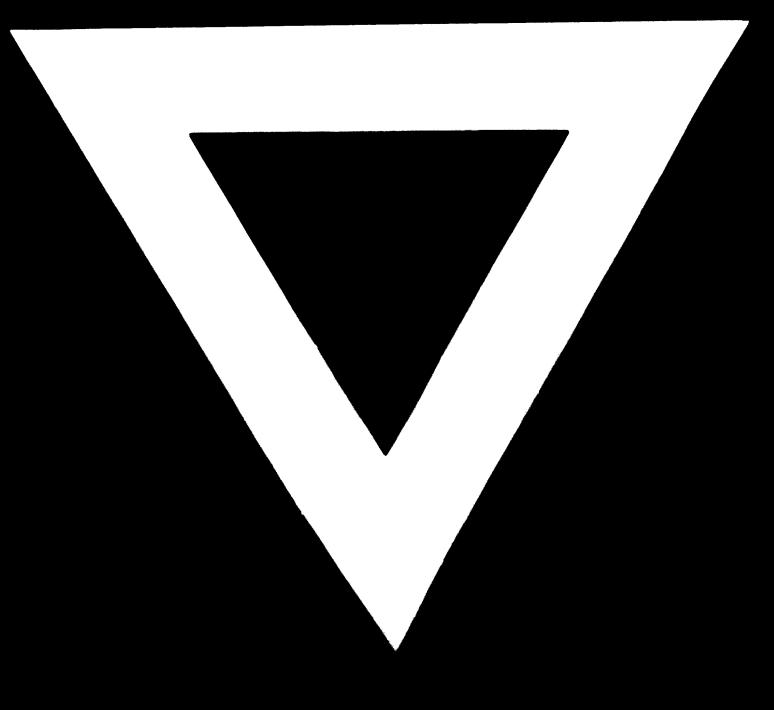
(1369 - 1971 Programmes)

	Total	rambers		terms or of a	of the
Number of questionnaires sent out		487			
Number of answers received		260			
No replies		244			
3. Freeent employment	700	ne.	-		
(6) in the same company	243	<u>no</u> 17	201		黑纸
(7) promoted	125	132	48%		50%
C. Impact training					
(9) on participant					
'more experience in own field'		223		86%	
'learned new skill'		187		725	
'more prestige'		135		525	
higher position.		67		26f.	
'higher salary'		65		29%	
other (no change)		18		75	
(10) use made of the experience gain	ed .				
'better equipped for work'		222		865	
'can advise others'		202		786	
'introduces new techniques'	_	40		544	
other		16		7%	
(11) could apply new knowledge/experi	lence				
immediately after return	188	71	725		284
(12) transfer of knowledge/experience	•	•	,,-		cop
within company	219	38	845		19%
(13) training of others in own field					
within company	92	168	35%		63%

(14) be	nefits of the introduction					
cf	new techniques					
*1	norease of quality!		92		35%	
'1	eduction of cost!		3 8		34%	
•1	ncrease of quantity		70		27%	
0+	her		17		1%	
(15) di	fficulties involved with t	he				
in	troduction of new technique	ies 109	73	42/		28%
•1	ack of machinery!		62		24%	
•1	ack of trained personnel.		59		23%	
'1	ack of funds'		51		20%	
·r	esistance to change!		40		1 9%	
ot	her		12		5%	
. Impact	ewaside cum company					
(16) tr	ansfer of knowledge/experi					_
		160	100			39%
	mining of others in own fi		-	23%		74%
(18) ad	vi e other companies	171	75	6 6%		29%
. Preluat	ion of training programme					
(19) di	d training programme meet					
	pectations? artly*	157	40 46	6 0%	18%	16%
(20) 1	ngth of training period					
• 8	dequate!		144		55%	
• •	oo short'		85		32%	
• •	oo long!		29		11%	
(21) tz	minin, too practical	55	194	21%		75%
(22) tr	maining too theoretical	122	137	43%		52%
(23) ac	complishments after return	A				
† ₈	good part'		137		52%	
• ٢	early everythin;		44		25%	
	erv little!		53		20%	

(24) up-dating essential	198	5 3	76%	22/3
(25) family received support	223	24	9%	9/
position held open	246	10	95%	4%





74.1.27