

UNIVERSITI PUTRA MALAYSIA

TRAINING NEEDS OF THE FRONT-LINE EXTENSION WORKERS IN THE WESTERN DEVELOPMENT REGION OF NEPAL

KOMAL PRASAD PRADHAN

FBMK 1985 2



TRAINING NEEDS OF THE FRONT-LINE EXTENSION WORKERS IN THE WESTERN DEVELOPMENT REGION OF NEPAL

by

Komal Prasad Pradhan

A thesis submitted in partial fulfilment of the requirements for the degree of Master of Science in the Centre for Extension and Continuing Education,
Universiti Pertanian Malaysia.



TRAINING NEEDS OF THE FRONT-LINE EXTENSION WORKERS IN THE WESTERN DEVELOPMENT REGION OF NEPAL

by

Komal Prasad Pradhan

A thesis submitted in partial fulfilment of the requirements for the degree of Master of Science in the Centre for Extension and Continuing Education,
Universiti Pertanian Malaysia.



This thesis is dedicated to my parents who have been a source of inspiration throughout the study period



ACKNOWLEDGEMENTS

The author wishes to express his deep appreciation and sincere gratitude to Associate Professor Dr. Rahim Md. Sail for his tremendous assistance and guidance in the preparation of this thesis. Heartfelt gratitude is also extended to Associate Professor Dr. Saidin bin Teh for his valuable comments and suggestions.

Special thanks are due to Dr. Jagdis Raj Baral, Mr. Tika

Kumar Pradhan and Mr. Chiranjibi Karmacharjya for their

suggestions and encouragements. The author is grateful to the

Agricultural Development Council Inc. (A/D/C) for generously

providing financial support for this study, and to the Department

of Agriculture for granting study leave during the period of this

study.

Acknowledgement is also due to the Regional Director Mr.

Manik Ial Pradhan, A/D/C Associate Dr. John C. Cool, A/D/C

Specialist Dr. Michael B. Wallace and the staff of the District

Agriculture Development Office of Nawalparasi, Palpa, Syangja,

Iamjung and Mustang districts for their support and cooperation

in data collection. The author is also thankful to Mr. Siow Kiat

Foo for his assistance in computer programme.

Finally, the author expresses deep gratitude to his parents and brothers for their neverfailing encouragements and patience throughout the study period.



TABLE OF CONTENIS

	Page
ACKNOWLEDGEMENTS	iii
TABLE OF CONTENTS	iv
LIST OF TABLES	vii
LIST OF FIGURES	хi
LIST OF ABBREVIATIONS	xii
ABSTRACTS (English)	xiii
ABSTRACTS (Bhasa Malaysia)	xv
CHAPTER I INTRODUCTION	1
Statement of the Problem	10
Objectives of the Study	14
Significance of the Study	15
Limitations of the Study	17
CHAPTER II REVIEW OF LITERATURE	19
Concept of Training	19
Role and Significance of In-service Training in Extension Service	28
Professional Competencies of Extension Personnel	34
Training Needs of Extension Personnel	45
CHAPTER III RESEARCH METHODOLOGY	61
Source of Data	61
Location of the Study	61
Subjects of the Study	63
Procedures for Sample Selection	65
Procedures for Data Collection	67



	Page
Development of the Questionnaire	68
Pretesting of the Questionnaire	69
Development of Scales for Measuring Dependent and Independent Variables	70
The Dependent Variables	70
The Independent Variables	73
Reliability Tests for the Scales	74
Analytical Procedures and Techniques Used	77
Significance Level	80
CHAPTER IV FINDINGS AND DISCUSSIONS	81
Description of Respondents	81
Importance of Professional competencies in Relation to Job Performance of the Front-Line Extension Workers	97
Importance of Professional Competencies for Inclusion in the In-service Training Programmes	124
Differences in Groups' Ratings on the Importance of Professional Competency Categories in Relation to Job Performance	147
Differences in Groups' Ratings on the Importance of Professional Competency Categories for Inclusion in the In-service Training Programmes	160
Relationship Between the Importance of a Competency Category in Relation to Job Performance and Its Importance for Inclusion in the In-service Training Programmes	175
CHAPTER V SUMMARY, CONCLUSIONS AND RECOMENDATIONS	178
SUMMARY	178
Objectives of the Study	178
Procedure for Data Collection	179



	Page
Statistical Methods Used	181
Findings of the Study	182
CONCLUSIONS	186
RECOMENDATIONS	190
Suggestions for Further Study	194
BIBLIOGRAPHY	196
APPENDICES	201
Appendix A Questionnaire (English)	201
Appendix B Questionnaire (Nepali)	216
Appendix C Introductory Letter by Regional Director (English)	228
Appendix D Introductory Letter by Regional Director (Nepali)	229
Appendix E Covering Letter by Author (English)	230
Appendix F Covering Letter by Author (Nepali)	231
BIOGRAPHICAL SKETCH	232



LIST OF TABLES

Table		Page
1.	Distribution of Respondents According to District	67
2.	Reliability Coefficients of Professional Competency Categories' Importance to Job Performance	75
3.	Reliability Coefficients of Professional Competency Categories' Important for Inclusion in the In-service Training Programme	76
4.	Distribution of Respondents by District and Staff Position	82
5.	Distribution of Respondents by Nature of Post	83
6.	Distribution of Respondents by Region	84
7.	Distribution of Respondents by Job Responsibility	85
8.	Distribution of Respondents by Age	86
9.	Distribution of Respondents by Tenure	87
10.	Distribution of Respondents by Level of Education	89
11.	Distribution of Respondents by Attendance of In-service Training Programme	90
12.	Distribution of Respondents by Number of Training Programme Attended	91
13.	Distribution of Respondents by Tenure and Number of Training Programme Attended	93
14.	Distribution of Respondents by Training Attendance in Last 12 Months	94
15.	Distribution of Respondents by General Characteristics	95
16.	Perceived Importance of Extension Programme Planning Competencies in relation to Job Performance of the Front-Line Extension Workers	100



Table		Page
17.	Perceived Importance of Extension Programme Implementation Competencies in Relation to Job Performance of the Front-Line Extension Workers	103
18.	Perceived Importance of Extension Programme Evaluation Competencies in Relation to Job Performance of the Front-Line Extension Workers	106
19.	Perceived Importance of Leadership Development Competencies in Relation to Job Performance of the Front-Line Extension Workers	109
20.	Perceived Importance of Communication and Public Relation Competencies in Relation to Job Performance of the Front-Line Extension Workers	111
21.	Perceived Importance of Knowledge on Local Situation Competencies in Relation to Job Performance of the Front-Line Extension Workers	114
22.	Perceived Importance of Administrative and Organizational Skills in Relation to Job Performance of the Front-Line Extension Workers	116
23.	Perceived Importance of General Competencies in Relation to Job Performance of the Front-Line Extension Workers	118
24.	Perceived Importance of Extension Programme Planning Competencies for Inclusion in the In-service Training Programmes	125
25.	Perceived Importance of Extension Programme Implementation Competencies for Inclusion in the In-service Training Programmes	128
26.	Perceived Importance of Extension Programme Evaluation Competencies for Inclusion in the In-service Training Programmes	131
27.	Perceived Importance of Leadership Development Competencies for Inclusion in the In-service Training Programmes	133
28.	Perceived Importance of Communication and Public Relation Competencies for Inclusion in the In-service Training Programmes	135
29.	Perceived Importance of Knowledge on Local Situation Competencies for Inclusion in the In-service Training Programmes	137



Table		Page
30.	Perceived Importance of Administrative and Organizational Skills for Inclusion in the In-service Training Programmes	139
31.	Perceived Importance of General Competencies for Inclusion in the In-service Training Programmes	141
32.	Distribution of Means, Standard Deviations, Ranks and F-values of Competency Categories in Relation to Job Performance of the Front-Line Extension Workers According to Total Sample and Staff Position	148
33.	Distribution of Means, Standard Deviations, Ranks and F-values of Competency Categories in Relation to Job Performance of the Front-Line Extension Workers According to Total Sample and Age groups	150
34.	Distribution of Means, Standard Deviations, Ranks and F-values of Competency Categories in Relation to Job Performance of the Front-Line Extension Workers According to Total Sample and Tenure Groups	
35.	Distribution of Means, Standard Deviations, Ranks and F-values of Competency Categories in Relation to Job Performance of the Front-Line Extension Workers According to Total Sample and Educational Groups	
36.	Distribution of Means, Standard Deviations, Ranks and F-values of Competency Categories in Relation to Job Performance of the Front-Line Extension Workers According to Total Sample and Training Attendance Groups	
37.	Distribution of Means, Standard Deviations, Ranks and F-values of Competency Categories for Inclusion in the In-service Training Programmes According to Total Sample and Staff Position	
38.	Distribution of Means, Standard Deviations, Ranks and F-values of Competency Categories for Inclusion in the In-service Training Programmes According to Total Sample and Age Groups	
39.	Distribution of Means, Standard Deviations, Ranks and F-values of Competency Categories for Inclusion in the In-service Training Programmes According to Total Sample and Tenure Groups	



Table Page

40. Distribution of Means, Standard Deviations,
Ranks and F-values of Competency Categories for
Inclusion in the In-service Training Programmes
According to Total Sample and Educational Groups ...

- 41. Distribution of Means, Standard Deviations,
 Ranks and F-values of Competency Categories for
 Inclusion in the In-service Training Programmes
 According to Total Sample and Training
 Attendance Groups



LIST OF FIGURES

Figure		Page
1.	Map of Nepal showing development regions and districts	
2.	Map of the Western Development Region showing sampled districts	



LIST OF ABBREVIATIONS

Abbreviation

FLEWs : Front-Line Extension Workers

JTs : Junior Technicians

JTAs : Junior Technical Assistants

SLC : School Leaving Certificate

A/D/B : Agricultural Development Bank, Nepal

A/I/C : Agricultural Input Corporation, Nepal

A/D/C : Agricultural Development Council, Inc.

I. A. : Intermediate of Arts

I. Com. : Intermediate of Commerce

B. A. : Bachelor of Arts

B. Com. : Bachelor of Commerce

I. Sc.(Ag): Intermediate of Science in Agriculture

B. S. : Bikram Sambat - Nepalses Calender



An abstract of the thesis presented to the Senate of Universiti Pertanian Malaysia in partial fulfilment of the requiremnets for the degree of Master of Science

TRAINING NEEDS OF THE FRONT-LINE EXTENSION WORKERS IN THE WESTERN DEVELOPMENT REGION OF NEPAL.

by

Komal Prasad Pradhan July, 1985

Supervisor : Associate Professor Dr. Rahim Md. Sail Faculty : Centre for Extension and Continuing Education

The main purpose of this study was to determine the training needs of the front-line extension workers (FLEWs) in the Western Development Region of Nepal. The specific objectives of this study were to determine: the importance of some selected professional competencies in the fields of extension, communication and social skills in relation to FLEWs' job performance and for inclusion in the in-service training programmes; the differences in the respondents' perceptions on the importance of the professional competency categories in relation to their job performance and for inclusion in the inservice training programmes when the respondents were grouped according to staff position, age, tenure, educational level and attendance in in-service training programmes and; the relationships between the importance of the professional competency categories in relation to FLEWs' job performance and their importance for inclusion in the in-service training programmes.



The data were collected from 142 respondents in five selected districts of the Western Development Region in Nepal using self-administered questionnaires. The questionnaire consisted of 95 selected professional competencies in the fields of extension, communication and social skills, and some selected personal charateristics. Likert Scale technique was used to obtain the respondents' perceptions on the importance of the listed competencies.

It was found that all the 95 selected professional competencies were perceived important by the respondents in relation to their job performance. Similarly, 94 (out of 95) competencies were perceived important by the respondents for inclusion in their in-service training programmes. The respondents, irrespective of the selected personal characteristics, perceived all the eight competency categories to be important for their job performance as well as for inclusion in the in-service training programmes. A significant and positive relationship existed between the importance of each of the competency categories in relation to job performance and their importance for inclusion in the in-service training programmes.

The findings of the study indicated that front-line extension workers in Nepal required training in the fields of extension, communication and social skills in order to perform their job more effectively and efficiently.



Abstrak tesis yang dikemukakan kepada Senat Universiti Pertanian Malaysia sebagai memenuhi sebahagian dari keperluan untuk ijazah Master Sains

KEPERLUAN LATIHAN UNTUK PEKERJA PENGEMBANGAN BARISAN HADAPAN DI KAWASAN PEMBANGUNAN BARAT, NEPAL

Oleh

Komal Prasad Pradhan Julai, 1985

Penyelia: Profesor Madya Dr. Rahim Md. Sail

Fakulti : Pusat Pengembangan dan Pendidikan Lanjutan

Matlamat utama kajian ini adalah untuk menentukan keperluan latihan bagi pekerja-pekerja pengembangan barisan hadapan (PPBH) di Kawasan Pembangunan Barat, Nepal. Objektif-objektif khusus kajian ini adalah untuk menentukan: kepentingan beberapa kemahiran profesional dalam bidang pengembangan, komunikasi dan kemahiran sosial yang ada kaitannya dengan prestasi kerja dan program latihan dalam perkhidmatan PPBH; perbezaan tanggapan responden terhadap kepentingan kategori-kategori kemahiran profesional berhubung dengan prestasi kerja dan program latihan dalam perkhidmatan mengikut jawatan, umur, jangkamasa berkhidmat, penyertaan dalam program latihan dalam perkhidmatan dan tahap pendidikan responden dan; menentukan hubungan di antara kepentingan kategori kemahiran profesional berhubung dengan prestasi kerja PPBH dan kepentingan kemahiran berkenaan dalam program latihan dalam perkhidmatan.



Data telah dikumpul daripada 142 responden di lima buah daerah dalam Kawasan Pembangunan Barat, Nepal dengan menggunakan borang soal-selidik yang dijawab oleh responden sendiri. Borang soal-selidik mengandungi 95 kenyataan kemahiran profesional dalam bidang pengembangan, komunikasi dan kemahiran sosial serta beberapa soalan mengenai ciri peribadi. Teknik Skala Likert (Likert Scale) telah digunakan untuk mendapatkan tanggapan responden terhadap kepentingan kenyataan-kenyataan yang disenaraikan.

Didapati bahawa kesemua 95 kenyataan profesional dianggap penting oleh semua responden berhubung dengan prestasi kerja mereka. Manakala 94 daripada 95 kenyataan dianggap penting oleh semua responden untuk dimuatkan dalam program latihan dalam perkhidmatan. Kesemua responden tanpa mengira ciri-ciri peribadi yang telah dipilih menganggap lapan kategori kemahiran profesional adalah penting untuk prestasi kerja mereka dan untuk dimuatkan dalam program latihan dalam perkhidmatan. Hubungan yang signifikan dan positif wujud di antara kepentingan terhadap setiap kategori kemahiran profesional berhubung dengan prestasi kerja dan kepentingan untuk dimuatkan kategori kemahiran berkenaan dalam program latihan dalam perkhidmatan.

Hasil kajian ini menunjukkan bahawa pekerja-pekerja pengembangan barisan hadapan di Nepal memerlukan latihan dalam bidang pengembangan, komunikasi dan kemahiran sosial untuk melaksanakan kerja mereka dengan lebih cekap dan berkesan.



CHAPTER I

INTRODUCTION

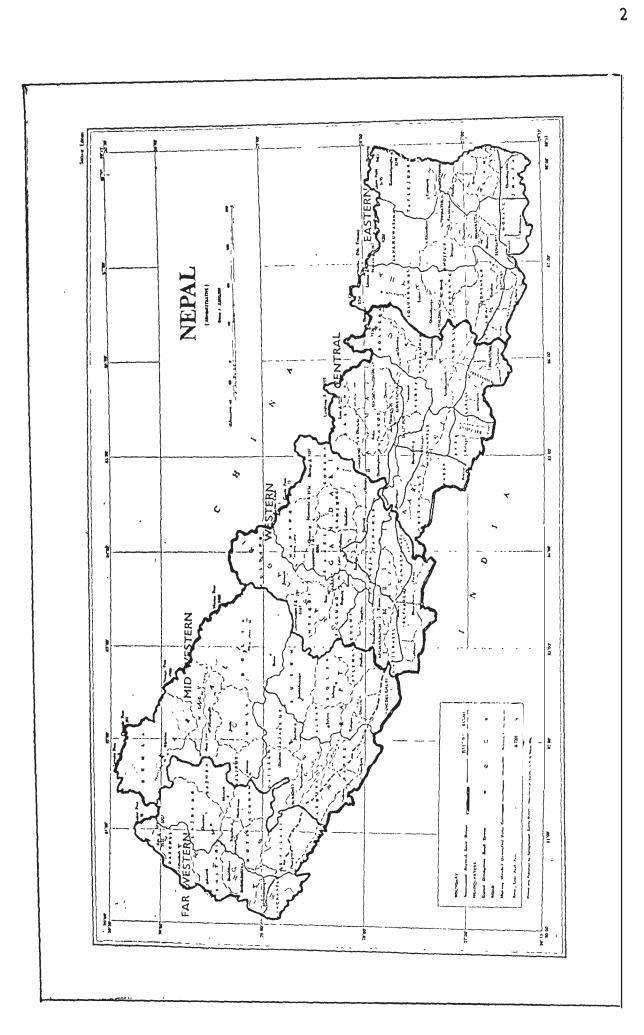
Nepal is a small Himalayan kingdom in South Asia between India and China. It has an area of about 147,181 square kilometers with a population of about 15 million. The major part of the country consists of high mountains and rolling hills. This accounts for 83 percent of the total land area, while the remaining 17 percent is flat.

Administratively, Nepal is divided into five developmental regions: (1) the Eastern Development Region, (2) the Central Development Region, (3) the Western Development Region, (4) Mid-Western Development Region, and (5) the Far-Western Development Region (see figure 1). However, according to altitude, the country can be divided into three distinct natural regions, namely, the himalayan region (4877 m - 8839 m); the mountain region (610 m - 1 region (350 m - 610 m) (Nepal, 1982).

Nepal is predominantly an agrarian country. About 93 percent of its total population depend their livelihood on agriculture and its related activities. Agriculture plays a dominant role in the economic development of the country. Its importance is reflected by the high Gross Domestic Product (GDP) generated by



A flat area along the southern parts of the country which is very fertile and productive.



Map of Nepal showing Development Regions and Districts. Figure 1



this sector which accounts for 65 percent, as well as, high employment opportunity provided by this sector (94 percent). This sector also contributes 80 percent of the foreign exchange earnings (Khadka and Gautam, 1981). The overall progress in the development of the country is largely dependent on an increase in the productivity in the agricultural sector. Therefore, the government has continuously stressed on agricultural development as a key to the national development in Nepal.

Nepal has been self-sufficient and self-reliant on food for a long time in the past. However, this situation has changed in recent years. The overall agricultural productivity per unit area has declined as more and more marginal land is brought into cultivation. On the other hand, there are more mouths to feed and virtually no additional land to bring under cultivation (Pant and Thapa, 1981). Statistics have shown that there has been a faster growth in population than of agricultural production in the last decade. For example, in the last fifth five-year plan (1976 - 1980), the population growth rate in the country was 2.3 percent while the agricultural production was decreased by 22 percent in the fifth year of the plan (Singh, 1980).

The importance of agriculture has been well recognized in the development of the country's economy. So, the agricultural sector has been given top priority in the national development plans since its fourth five-year plan (1971-1975). However, the first three five-year plans (1956-1970) emphasized on the creation of basic infrastructure in the country and paid little attention to the agricultural development programmes (Pant and Thapa, 1981). After the fourth five-year plan, planners,



administrators, and policy makers concerned with agricultural development are striving hard to bring about a rapid increase in agricultural production. Increased efforts have been under way to accelerate the process of transfering the country's traditional agriculture into a modern and self-sustaining one. In doing so, several agricultural development programmes have been launched and the government has invested heavily on agricultural development in the past two decades. But, despite these emphases and heavy investments, no significant increase in agricultural production has been achieved.

Farming, in Nepal, is still largely based on traditional technology (Khadka and Gautam, 1981). One of the factors for the slow agricultural development in the country, to a large extent, is believed due to out-moded and traditional methods of agriculture still practised by the majority of the farmers. Experimental trials conducted on the government farms and farmers' plot have demonstrated that a considerable potential exists for higher yields with the adoption of improved varieties, water management, nutrient supply, and plant protection measures.

There is no doubt that technological innovations are the effective means of increasing agricultural production. But, the development of such improved and modern technology in itself is of little or no value unless they reach to the ultimate users and are put into practice by them. The extension service is responsible for the transfer of these new improved technologies to the farmers. The extension service is also responsible for educating and mobilizing the peasants to adopt new technology in



the field. Therefore, an effective extension service plays a very important role in agricultural development.

In Nepal, the Department of Agriculture is responsible for the overall development of agriculture. The Department of Agriculture is the main agency to develop and disseminate improved agricultural technology. Under the Department of Agriculture, there is a Division of Agricultural Extension and Training which is responsible for coordinating and supervising extension programmes in the country. In the districts, the extension programmes are carried out through the District Agricultural Development Office. It is an education arm of the Department of Agriculture which is headed by an Agricultural Development Officer, a degree holder in agriculture. He is responsible for planning, execution, supervision, and evaluation of the extension programmes in the district.

Depending upon the population size and area of the district, about 20 to 45 Junior Technicians (JTs) and Junior Technical Assistants (JTAs) are attached to each district. They are the grass root level extension workers who are responsible for implementing extension programmes at the village level. The Junior Technicians are either a two year certificate holder in agriculture or promoted from the Junior Technical Assistants after a minimum of five years experience in extension work. The Junior Technical Assistants are either a JTA training

2 3
certificate holder or School Leaving Certificate (SLC) holder



A recognition achieved after one year training in various fields of agriculture which is organized especially for JTAs.

A recognition achieved after 10 years of formal schooling.