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THESIS

STRENGTHENING CAPACITY OF AGRICULTURAL EXTENSIONISTS' IN WORKING WITH FARMERS AND NETWORKING

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A Thesis Submitted in Partial Fulfillment of the Requirements for the Degree of Doctor of Philosophy (Tropical Agriculture) Graduate School, Kasetsart University 2008 Rujeepatchara Boonjing 2008: Strengthening Capacity of Agricultural Extensionists' in Working with Farmers and Networking. Doctor of Philosophy (Tropical Agriculture), Major Field: Tropical Agriculture, Interdisciplinary Graduate Program. Thesis Advisor: Associate Professor Patana Sukprasert, Ph.D. 176 pages.

The objective of this study was to develop a model to strengthen a capacity of agricultural extensionists' in working with farmers and networking and to produce a manual/guide on systematic development in agricultural extension. The study comprised 2 phase: the first phase: studied from 555 target persons, using the questionnaire, interview schedule and the second phase studied from 31 agricultural extentionists' and 100 networking using training evaluation form and revised the data of the researcher from both two phases by focus groups technique.

The result from the first phase found out that the model of characteristics of agricultural extentionists' consist of 5 dimensions: 1) knowledge 2) leadership 3) emotional 4) skill and 5) smartness, These characteristics could be synthesized to KLESS Competency Model which were related to each other in every dimension. In the second phase, it was found out that the agricultural extentionists' who attended the in service training performed will according to the KLESS Competency Model but still had weaknesses in knowledge and skill dimensions.

The ICCMP, which included 1) In-service training 2) Competency analysis 3) Course design 4) Motivation 5) Promotion, was identified as a mechanism to enhance the readiness of agricultural extensionists' to work with farmers and their network based on KLESS Competency Model in terms of internal and external characteristics of self-development and working with other persons. The study recommended that the organization staff the importance on personel competency prior to job assignment so that the work could be implemented in line with the needs of stakeholders.

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CHAPTER I

INTRODUCTION

Statement of the Problem

The Department of Agricultural Extension (DOAE) of the Ministry of Agriculture and Cooperatives is responsible for the promotion and development of the farmers and farmers' organization in agricultural production and product management; it provides agricultural services to farmers and also promotes and develops community enterprise directed to farmers themselves. Farmer's promotion and development cannot be done without the Agricultural Extensionists' who is DOAE personnel, working in the field either at the district or sub-district or tambon level. He or she is the representative of the Ministry of Agriculture and Cooperatives in the transfer of production technology and in implementing the policy into action at the field level (production areas). Consequently, the Agricultural Extensionists' is in the process, the first provider of government service to reach down to the farmer. The Agricultural Extensionists' works in the field as a friend, adviser and teacher to farmers, and along with the farmers in Thailand, faces all the good and bad situations that may arise.

We can therefore say that the potentiality or quality of an agricultural product depends to some extent on the ability and efficiency of the work of an Agricultural Extensionists' If he or she is working without the right knowledge and ability; no skills, and lack of experience, no enthusiasm or heart to work together with farmers, then he or she will not understand how to lead the farmer to success and be proud of the profession.

If Thailand needs to develop the farmers to have high potentials and ability to compete in the production, it is therefore necessary to develop the personnel who work directly with the farmers, that is, the Agricultural Extensionists'. Two factors are needed for a systematic development of the Agricultural Extensionists', i.e.

the *internal and external* factors. Internally, meaning developing his inner self while externally, involving external factors such as knowledge, skills, ability. The Agricultural Extensionists' must have initiative and creative ideas, ideals, aspirations, soul and mind to be ready to build up the knowledge base and management of farmers and community to attain good quality life, high potential for production and a more sustainable power for competition.

At present, DOAE appointed Agricultural Extensionists' to work in 7,105 subdistricts (or tambon), each one responsible for two sub-districts from the whole staff of 5,883 Agricultural Extensionists', having an average age of 47 years old, an average working experience of 26 years, and 75% with educational background as Bachelor's Degree (DOAE, 2006). The World Bank used to support through a loan to Thailand for the National's Agricultural Extension System Development Project which extended services down to the tambon (sub-district) level. The proportion of Agricultural Extensionists' to farmer is 1:1,000 while using the Training and Visiting System (T&V) for their work since then. However, with the present situation of the whole government being restructured, DOAE is now facing a shortage of personnel (Agricultural Extensionists') to work with the farmer. Agricultural Extensionists' seem to have lost their enthusiasm and morale in work; they seem to have lost the mind and soul to build up farmers to be SMART FARMERS. With present condition, they lack stimulation and motivation to work as they feel that there is no future growth in their own official life. Secondly, external or surrounding factors, such as unsystematic work and policy, improper model of work, the functions and duties given are more than the persons' abilities and especially the additional duties from line agencies.

Changes in policies many times a year brought confusions, non-continuity and improper working conditions. For 26 years, DOAE has no empowerment of authorization, shortage of vehicle to use for work and less incentives such as perdiem resulted in the decrease of willingness and readiness of the Agricultural Extensionists' to work. Thus, there is no more enthusiasm to build up SMART FARMERS which will be the critical problem for Agricultural Extensionists' (AE) in the near future.

The Agricultural Extensionists' of DOAE, Ministry of Agriculture and Cooperatives have the function and responsibility (mission) to respond to the farmer's need. In this kind of work, the AE should have the knowledge and ability to analyze the suitability and understanding of all the agricultural area, should know the potential and community readiness for the information and guideline to be used efficiently in their own responsible areas at the tambon (sub-district level), including knowledge and ability in transferring the production knowledge, production management, processing, marketing, community enterprise, and learning center for sufficient economy. By using Sub-district Agricultural Technology Transfer and Service Center (ATTC) as the center of work, AE provides the services, suggestion, and advice to the farmer, farmers organization and community enterprise efficiently; AE also supports the farmer in the community to participate in planning for Agricultural Development Plan which is suitable to the analysis result of community needs and farmers' need (DOAE, 2006).

The DOAE's working group for personnel development evaluation and motivation (MOAC: DOAE, 2006), proposed that the Agricultural Extensionists' should have core competency and line competency as follows:

- knowledge ability in building up the knowledge base to be transferred from theory into action in case of self-development and farmer development
 - ability of being proactive in job's quality development
- giving cooperation work with both internal and external line agencies by using the communication processes for building up the suitable operation network under participatory approach and planning (PAP) including the competence of value added promotion (of the agricultural product) by using the learning process and executive administration management system which fits each area
- ability to integrate network thereby strengthening the work in the systematic and sustainability

- ability in management and administration by following and using the modern administration principles that would result to the success of the farmer such as increasing farmer's income, less investment and extending more opportunities to the agricultural activities.

In the same time the social expectation to DOAE's policy and strategy in the development of Agricultural Extensionists' as a leader on changing actions will improve the ability and potential of the farmer to operate efficiently the agricultural activities resulting into good management of agricultural production processing of high quality, will add more value to the product and its sustainability.

So we can expect that the AE will work with full academic knowledge, highly competent and suitable to give services to farmers under operation with line agencies and concerned persons such as administrator, academic agricultural extension persons including district agricultural extension officers, farmer leaders from farmer networks, and also with other professional persons in the field of agriculture, local leader, working group, from tambon administration authority, tambon leader and village leader.

The work of the Agricultural Extensionists' follows the job description and suits the community's needs, should follow the farmers' needs, co-operation with line agencies and concerned persons throughout the administration and systematic participation, work potential and efficiency will have good results if:

- 1. Farmer and community are ready to develop; there is a knowledge base to manage the network system of operation;
- 2. The AE with the following qualifications will lead to a successful quality life of farmers: leadership, ability in problem solving, giving suggestions; good communication ability and cooperative to people; bring government policies into action efficiently, including the potential in leading the farmers' network; encourage farmers to establish new network.

The research from Laksana and Ungsurat (Abstract, 1997) stated that the management of farmer's network by the group leader is still inefficient in managing the services for a number of agricultural activities to serve the DOAE's purpose.

The President of farmers' group has no potential to show out a good leadership status, members of the network group are still expecting that the farmer group can still provide enough agricultural inputs, and the members of the network group are also expecting that the farmer group leader's performance should include good human relations and also good governance in their work. This concept also harmonizes with the idea of Sungsawang (2005) who stated that the performance of network should have group members to be in good relations with each other, should have regular communication and exchange of information between them through a system: individual to individual, group to group, and between farmers' network in a community – this would then create a relation system in the exchange of learning and suited to the Exchange Theory (Nirathon, 1543), which explains that the group members should communicate and exchange information or ideas among them and the participation as network member should be voluntary.

Based on the above situation, DOAE should enhance the capacity building system for the Agricultural Extensionists' in the aspects of knowledge, efficiency, skills, innovation, creativity in ideas, readiness, team working with farmer, morale in work, enthusiasm in his own profession, flexibility in implementing policies for goal attainment and sustainability. The AE should set up working goal, line and system of working operations and the growth system. If the above development system could be achieved, then DOAE will have well capable and strengthened Agricultural Extensionists'who will have high potential to build up the SMART FARMER which will lead Thailand's agriculture into the world of competition, sustainable and strong.

As have been mentioned previously, it is important to conduct a research about the development of the abilities of the Agricultural Extensionists' in relation to his efficiency in working together with the farmers to build up the farmer's leadership status in performing the new network. It is also aimed that the AE's efficiency can

match to the farmer's need and community expectation related to the national economic and social development Plan. The researcher will gather the knowledge learned to build up a prototype model for Agricultural Extensionists' for use in daily work at the tambol (sub-district) level for the duties of DOAE, Ministry of Agriculture and Cooperatives.

Objectives

- 1. To analysis and synthesize the characteristic model for Agricultural Extensionists' to work together with farmer and farmers network as expected from Stakeholders
- 2. To build up systematic model and produce the hand book for the development of Agricultural Extensionists' to have potential to work with farmer and farmer network.
- 3. To evaluate the training using systematic model and hand book for the development of Agricultural Extensionists' curriculum.

Research Contribution

- 1. The Characteristic and knowledge inquiry to be used by the AE in working closely together with the farmers and Stakeholders expert.
- 2. A prototype model built for the development system of an Agricultural Extensionists' capable of working together with the farmer and network.
- 3. To construct the Model of Agricultural Extensionists' characteristic for working capacity and working with network.
 - 4. Curriculum development system for Agricultural Extensionists'.

Scope of Study

This research study will use analysis of data from documents, experts and concerned persons for the development of agricultural extensionists' and farmer. The study will include:

- 1. Point of study; factors related to the development of AE to have strong knowledge and capability to work together with the farmer and supporting farmer efficiently in setting up the farmers' network. These factors are:
- 1.1 Essential characteristics or qualities of an Agricultural Extensionists' such as:
 - 1.1.1 Present potentials, ability or capability, characteristics
 - 1.1.2 Potentials, ability, characteristics the farmers need
 - 1.1.3 Potentials, ability, characteristics are expected by DOAE
- 1.1.4 Potentials, ability, characteristics which are expected by the society.
- 2. Knowledge base related to agricultural extension work, quality of life development for farmer, administration work and establishment of farmers' network.
- 3. The concerning Exporter from Agricultural Extensionists' mass communication, HRD. Professional, The Social Researcher.
- 4. Purposive sampling the Agricultural Extensionists' in Samut Prakran province and Networking in area.

Condition of Curriculum Implementation

- 1. Before used KLESS Competency Model need to analysis competency of targets group.
- 2. This training did not pre- test but Effective evaluation post training 1-3 month

CONCEPTUAL FRAMEWORK

Analysis & Synthesis Process of **Agricultural Extensionists' Characteristics from Stakeholder Expectation** Data and information Data and Information from analysis and synthesis supervision and evaluation **Agricultural Extensionist's** characteristics development system Self-Internal characteristics development Working External together characteristics

Figure 1 Conceptual framework

The methodology used in this research is similar to case study or educational process dealing with information analysis, collecting data from different sources to bring out the essential qualities or characteristics of an ideal agricultural extensionists'. Sources of information and data include farmers, concerned persons or those who have linkages; community and DOAE's needs and there after, setting up the ideal characteristics of the AE, considering both the internal and external factors involved. These factors include such qualities as: ability to work by himself and the ability to work together with other persons; sense of self-development and farmer development. After the study and analysis of the characteristics of the network farmer leader, then follows the creation of design of the development system for agricultural extensionists' that can have the potential to work together with farmers and can support the system of farmer network promotion. Testing of this system for its suitability through trials will be used.

Definitions

Agricultural Extensionist means: DOAE personnel who is working in the area at sub-district (Tambon) level and working closely with farmers and farmer leader.

Leader means: The person who received the recognition for the ability in his work throughout the target and also able to motivate others to follow that will lead to a change into a better condition.

Network leader means: The person who is able to motivate farmers to work together in the group in order to join activities for agricultural profession and the development of a quality life.

Leadership status means: The ability to build up enthusiasm and motivate/stimulate to change without position's power or institution's power, working throughout until the target/goal is achieved.

Farmers' network system means: A model of grouping farmers together to work together, cooperate with each other to gain an efficient working system to reach a common target or objective.

Agricultural Extension Stakeholders means: Farmers, Agricultural Extensionists', DOAE, Community and Social.

Knowledge means: The knowledge in agriculture and agriculture extension of the Agricultural Extensionists'.

Skill means:Level of capability of the Agricultural Extensionists' in their work field in terms of flexibility and accuracy.

Leadership means: Behavior of the Agricultural Extensionists' which influences the farmer or stakeholder and concerned person to attain the same successful target or objective.

Smart Agricultural Extensionists' means: The Agricultural Extensionists' who has systematic thinking, hard-working, capable and good relations with community and society, and work in a team.

Psychology in Agricultural Extension means: Strategies, techniques and tactics which Agricultural Extensionists' use to change the farmer's behavior and attitude in full heart of agricultural occupation.

Spirit of Agricultural Extension means: The life power of the Agricultural Extensionists' to have his own ideology in dedicating body, soul and mind, to helping other persons in Agricultural Extension Development to reach targets or objectives.

Core competency means: The competency which result to the direct success of the duty of Agricultural Extensionists'.

Functional competency means: Additional competency which support the duty of Agricultural Extensionists' to give more work quality

CHAPTER II

LITERATURE REVIEW

Related Concepts, Theories and Research Results

The research deals with the development of the ability of the Agricultural Extensionists' in working together with the farmers and supporting the status of leadership of farmer in establishing the farmers' network. Researchers reviewed the documents which are relevant to the concept, theory and research result and synthesized the conception framework for this research which comprises the following:

- 1. Agricultural Extensionists' Character Ability Development
- 2. Leadership Building
- 3. Farmers' Network Establishment
- 4. Related Research Results
- 5. Curriculum Design
- 6. KPI
- 1. Agricultural Extensionists' ability development
- 1.1 The role and responsibility of the Department of Agricultural Extension (DOAE)

DOAE of the Ministry of Agriculture and Cooperatives (MOAC) is one of MOAC's authorities that work closely with farmers, and is directly responsible for agricultural extension, as announced on the Royal Gazette dated October 20 1967 and this Act founded the DOAE on October 21, 1967.

In 2003 the role of DOAE was readjusted following the restructuring of the Ministry of Agriculture and Cooperatives. Act B.E 2003 resulted to DOAE's

functions and responsibilities as follows: to increase farmer's potential in production, processing, adding value to agricultural products, standard setting and setting up guidelines in agricultural extension, production and product control, transfer of technology to farmers to earn more income and stable production and to acquire agricultural professions in categories as follows: (a) promote and develop the knowledge of farmer and farmer organization in the production and processing of agricultural product; (b) provide agricultural services to farmers, and (c) promote and develop the knowledge and ability of farmer and farmer organization in the community enterprise and processing of agricultural product.

Appointment of field officers in the local area: 6 Regional Agricultural Extension Offices, 76 Provincial Agricultural Extension Offices, and 879 District Agricultural Extension Offices which cover up the 7,105 sub-district, each unit working through the transfer of technology in agriculture to farmers and farmer organization in their area with the same objective: to lift up the level of the farmer's quality of life. The job description of the AE as set up by the Civil Service Development Commission is as follows:

Functions and Responsibilities of Agricultural Extensionist

- 1. Study and analyse the potential of the area and location, farmer and community for data information and guideline to work for the agricultural extension in the responsible area.
- 2. Promote and cooperate in transferring the knowledge in plant production and management, freshwater fishery and basic animal production by using the Tambon Agricultural Transfer of Technology and Services Center (TATTSC) for implementation and operations.
- 3. Provide the services and promote agricultural profession including the development of farmer, farmer organization and community enterprise.

- 4. Give advice, recommendations and support farmers and the community in agricultural development planning.
 - 5. Other work as appointed from the higher level.

The functions and responsibilities of the Regional Agricultural Extension Officer, the Provincial Agricultural Officer, District Agricultural Officer and the Agricultural Extensionists' focused mainly on the local services provided. As such the farmer is considered the centre of the development and the improvement or betterment of the quality of farmer's life depends on the work potential of the agricultural Extensionists' and the support system from the provincial and District Agricultural Extension Officer.

Competence of the Agricultural Extensionists'

The DOAE's working group for personnel development, evaluation and motivation (DOAE, 2006), in its analysis on the competency of DOAE's personnel, especially on the Agricultural Extensionists', stated the following conclusions:

CORE competency of Agricultural Extension

- 1. Building the knowledge base which means: the competency in analyzing the lesson, data and information according to concept and action resulted to self and organization development.
- 2. Total quality development which means: the ability in data, information and idea collection for analysis and set-up the total development process following the proactively in the job quality standard.
- 3. United cooperation which means: ability to unite the cooperation from both internal and external organizations using suitable communication and participation leading to solve the problems until the target or objective is reached.

Functional competency of Agricultural Extensionists'

- 1. Promote the agricultural product value means: ability to use wider and broader knowledge by utilizing data of market's need, innovation in production, evaluate the competency of target farmers in adding the value of agricultural product follows the processing standard by using the learning process and system management and administration suitable to the condition and problem of that area.
- 2. Integrating network to be strong and sustainable means: ability to unite and put together the agricultural production authorities, private authorities; administration and educational authorities, both in horizontal and vertical view resulting to shared knowledge, funds and administrative inputs and which are necessary to build strength and sustainability for increased income, less investment and greater opportunity for occupation in the farm.
- 3. Administration development that follows the modern political administration means: ability development of the service processes for the satisfaction of target officers and farmers following the modern political administration

Mookdasanit (1997): categorized in 3 groups the qualities of agricultural extensionists' which the Thai society needs:

- 1. Readiness group with both in mind and soul to work: the important qualities are vision on job, high aspirations, good attitude to the job and governance;
- 2. High potential group: full of knowledge, efficient and expert in their own profession, self-development and knowledge inquiry; responsible to the job, good human relationship, systematic thinking, and open to and accept another one's ideas; learn from people, then analyse and synthesize the knowledge base.

3. Skillful or skilled group: high skills in their jobs; good in cooperation, administration, able to transfer technology and give recommendations to farmer, good public relations and able to participate in work together with the farmer.

Southern Region Agricultural Extension Office in Songkhla (1987) stated that the function of agricultural extension in leading the farmer organization to be successful is the recommendation to found the farmer organization by pointing out the advantages of group or organization's work and also the cooperation between group and other agencies.

Srisangchan (2004) cited that the important qualities of Agricultural Extensionists' are: ability in communication, active and sincere in work, responsible and trustworthy, good human relations, high aspiration, ability in research and planning, always up-to-date with the current situation. Competency and ability of the Agricultural Extensionists' should have indicators for a clear objective in order to attain a concrete and successful job.

3 types of Agricultural Extensionists'

- 1. The Agricultural Extensionists' who is proactive and innovative with his mind and spirit ready to work in order to bring it new kind of work (innovation) into the area, visionary, dedicated to work together with the farmer group even without budget support from the government; good rapport (has established linkage) with the farmers in the area; able to encourage and motivate farmers to join the organization; high leadership; able to work independently with high potentiality for acquiring academic knowledge, can evaluate the work results through a competition in each year.
- 2. The Agricultural Extensionists' who is doing the job in a routine manner; just do the work when asked to do so through an order release or by official order, no rapport or affinity with the farmers, no aspiration or ambition or no enthusiasm at all

to do the work, not resourceful and has a limited or average potential for academic advancement.

3. The Agricultural Extensionists' who just works according to his job description or terms of reference, not much affinity to the farmers that some farmers in the area of his responsibility do not know him; lack of enthusiasm in the work; no academic interest; limited potential for academic advancement, lack of leadership; not in good relations with the farmers most of the time that sometimes lead him to be accused by farmers.

So, we can conclude that the qualifications or the essential qualities of an Agricultural Extensionists' should be: with logical and systematic thinking; has the ability to work, highly responsible, team worker; emotionally mature; experienced, efficient; proactive worker in the right way; elaborate; with high spirit for working; wise, clever, and open minded (listening to other's idea and not a one-track mind; creative, has some initiative in doing work; sociable; and dynamic.

1. Knowledge base for Agricultural Extensionists' development

1.1 Knowledge Management

Even there are many scientific concepts in knowledge management the end point will always be the utilization of knowledge to develop the organization's ability as much as possible. There are some processes to follow to acquire the knowledge and suitable system of sharing to target personnel (Yuthana Saeteo, 2004).

Aspects related to knowledge management:

- Knowledge acquired from both internal and external organizations
- Process of gathering knowledge and experience inside the organization

- Support in obtaining knowledge sharing between personnel of the organization
 - A part of human resource development to enhance competence
- Selection and creation of media for more efficiency in the utilization of technology

1.2 Knowledge sequence

Yamazaki (n.d. cited in Saeteo, 2004) explained the meaning of "Knowledge" by the Chart of Pyramid as shown in Figure 1.

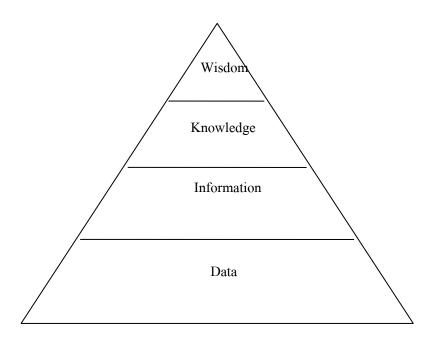


Figure 2 Knowledge Pyramid

The Chart shows that "data" are collected without transformation but "Information" transforms data arrange them and analyze them to obtain the results such as statistical analysis of population. Knowledge comes from the thinking process, compared and connected to other knowledge which then appear to "understand" and apply to use and utilization continuing from knowledge which is

inside the person up till "wisdom" is reached at the top of this process. Aside from completing the acquisition of knowledge by the person in this chart, the next step is how this knowledge is transferred to all over, not only to a few personnel in the organization. Therefore, management is needed.

1.3 Knowledge type

Knowledge is classified according to efficiency and ability in transferring knowledge (Totama, n.d. cited in Saeteo, 2004) and indicated 2 types of knowledge:

- 1.3.1 Tacit knowledge is the knowledge earned from experience, gifted or individual instinct which is hardly understood and difficult to express out verbally, article or number such as being skilled in work, skillful in handmade work, and good in problem analysis and logical thinking.
- 1.3.2 Explicit knowledge is the reasonable knowledge that is gathered in many forms such as note, text, theories, formulas, number or handbooks.

1.4 Steps in knowledge management

- 1.4.1 Survey and planning knowledge survey of the present environment is the first step to determine the status or condition of the organization's knowledge base (e.g. in what field), then start to process the plan and set up the objective of the development.
- 1.4.2 Taking action by any method to acquire knowledge and shared inside the organization. Such channels or methods could be from own self past experiences, from trials, from experiences of other persons and from training and developing class and courses.

1.4.3 Transferring and sharing the knowledge is the process of the developed knowledge transfer and shared throughout the target personnel with emphasis on efficiency and output.

2. Leadership status building

2.1 Concept about leader and leadership status

2.1.1 Trait theory

Ungsurat (1995) mentioned about the Leadership trait theory as a concept which is mostly from psychologist who is educated about the leadership qualification in the years 1940 and 1950. This theorist group believed that "the leader should have characteristic different from the follower, especially in physical and personality since his birth with some traits which support him to be the leader". Aside from this, Stogdill (1948: 71) was cited in the Review of Literature about the leader characteristics grouped according to 6 categories:

- (a) Physical characteristics since birth such as height, weight, features including body built, face and appearance and believe that the features like being tall, big, strong and good looking will support the character and personality of the leader.
- (b) Social and economic background such as education, social position, income and property ownership has higher or better opportunity to become a leader
- (c) Intelligence can be measured from the wit, depending on genetics, environment, competitiveness, self-training, right decisions, educational level, flexibility and skills in language use and communication.

- (d) Personality since birth but can be improved and developed to a better condition such as the ability to adjust, emotional balance, self-esteem, ability to face barriers or obstacle, initiative, possess creative ideas and ambitious.
- (e) Task-related characteristics is authentically related to work such as being responsible, human relations to office colleagues, efficiency in administration, has initiative in work and creative.
- (f) Social characteristics measured by a compromising attitude with the ability to seek cooperation from others; providing assistance to others, while at the same time also receives appreciation from the surrounding people; good contact and communication skills, ability to socialize and get along with different levels of personalities such as diplomats, knows how to encourage people and has the ability to make difficult situations easier.

2.1.2 Meaning of leader

Pukkapan (2001) stated that leader is the person who cooperates and guides people to work or stay together in a good way in order to achieve a common goal or objective happily and successfully.

Leader means the person who can encourage, motivate and lead another to work through the success of the objective with efficiency and positive output (Suthep Pongsriwat, 2002).

Bangpo (1995) said that Leader status or leadership means leading the organization in any method or influences to let the subordinates cooperate in working to reach the organization's objective and believed that this is due to 3 factors as follows:

- 2.1.2.1 Surrounding conditions inside the organization must be suitable to the person, if the organization needed to have a leader, the characteristic of the expecting person should fit to the situation.
- 2.1.2.2 Expectation of the follower means: the person who is the leader is able to solve for better situation or lead them in their work in order to reach the target.
- 2.1.2.3 Inspiration in work of group or organization and the leader should have high stimulation in willing to lead others to work successfully.

2.1.3 Composition of leader status

Pukkapan (2001) stated that the composition of leader status should be as follows:

- 2.1.3.1 Leader himself should have internal composition as the start, and then gradually become a CORE of the group or organization.
- 2.1.3.2 Followers who work together should have the readiness to be a good follower.
- 2.1.3.3 Target should be clear and should deeply understand the vital objective of group or organization
- 2.1.3.4 Punctuality attitude and method of organization will run the work to reach the target.
- 2.1.3.5 Things to be done for leading the work should be known to all the members of the organization.
 - 2.1.3.6 Environmental condition facing the working situation

In conclusion, Leader is the person who is able to lead, motivate and encourage the follower to follow up to reach the target; the leader should have the characteristic of self-capability, good motivator and work efficiently to lead the working team and the organization successfully.

Leader status means: the action of person who can motivate the follower to adopt and follow to work smoothly, voluntarily and willingly.

Type of leader means: characteristic group of leader which explains the model, leading approach both officially and unofficially or leading by nature of qualification or influence of the person who is the leader.

3. Establishment of farmer network

3.1 Concept about farmer, group and network

3.1.1 Meaning of farmer

Khemthong (1992) gave a definition of farmer as: the person who earns main income from agricultural products such as rice farming, field crop farming, fruit growing and animal husbandry.

3.1.2 Type of farmer

Toongwha (1995) classified farmer for 3 groups as follows:

1) Big farmer is the farmer who has high cost of production, such as capital, labour, occupies land and other operations which are accessible to the market both local and international. This group has more opportunities and advantages from the other groups.

- 2) Medium farmer is the farmer who has medium cost of production mostly in the form of complete cycle farmer; this group will contact and cooperate with the local and international agri-business companies to make business transactions that will be beneficial to both parties.
- 3) Small farmer is the farmer who has the lowest cost of production, this is the biggest group and present all over and every part of the country. This is the most pitiful group because it is faced with all kinds of obstacles, economic and social problems including health, and even environmental problems as a result of the development processes from the past; with weak physical appearance in both body and mind

Wichit Awakul classified farmers into 2 categories:

- 1) Livelihood farmer is the farmer who grows up crops and raise animals just enough for his own living or consumption of the family. This kind of farmer has no idea of improving the method to increase yield or more production for more income.
- 2) Commercial farmer is the farmer who utilizes the academic knowledge and new technologies to increase production of both crops and animals to sell in the market. This group uses improved agricultural inputs (i.e. fertilizer application, pest control, selection of improved varieties of plant and seeds, operates using modern machineries purchased from outside to help other kinds of professions.

In conclusion, farmer means the person who is engaged in agricultural profession who is well informed of production, processing and provision of agricultural services including agri-business; the main income of which is coming from selling the product or providing agricultural services.

From documentary education and research work, farmers can be classified into 4 types as follows:

- 1) Small farmer is the farmer who occupies an agricultural area or engaged in agricultural activity in less than 10 rai, and the income is less than 1,230 Baht/person/moth, or 14,760 Baht/person/year from the occupational activities using main labour in the family, utilization from the surrounding and local resources in production, processing and distribution to the local market and savings from the income are less than the essential basic standard.
- 2) Sufficient farmer is the farmer who is engaged in farm occupation by using the area of 10-39 rai, just sufficient enough for the family; the remaining product would be sold for additional income. This farmer does not use chemical in his activity; using organic agriculture for his farm operations; just enough income to sustain his and his family life in an ordinary way.
- 3) Business farmer is operating the farm for commercial purpose, using high technology and big area of production of more than 40 rai, has alliance in production, links to the marketing system of both locally and internationally. He also uses market mechanism leading to production.
- 4) Industrial farmer is the advanced farmer of the country, mostly uses production in the big industrial scale, planning for the production and processing in form of ready to eat, complete cycle and marketing, these are marketing alliance and production alliance throughout the agricultural services, this type of farmers encourages the profession and income to the small farmer in the local area.

Network theory and establishment

Network means: character of connection or linking between the groups of people or groups of organizations which is voluntary to exchange data information and join activities together by arranging the mode or arranging the structure on people or organization. The member is still free. In this meaning, the relation of network member is voluntary; network activities should be in equal status; membership in the network is not sensitive to the freeness or self-occupancy of the person or organization (Poonsuwan, 2004).

Theory and concept on network operations

Niratorn (2000) mentioned the theory and concept which explains the establishment of networking as follows:

- 1. Exchange theory means mutual exchange benefits with each other. This means that the main reason for establishing networking voluntarily will be advantageous for all members and will lead to a successful cooperation.
- 2. Synergy power can be explained by the equation of 1 + 1 = 3 or 2+2=5 which means that the synergy power to work leads to result of multiple values or will stronger than the work of just by the individual of each organization. This leads to the belief that synergy power would give more strength to the organization.

There are additional reasons to describe the establishment of network which are as follows:

- 1. Companionship in work is needed
- 2. Needs the resource and support in work
- 3. Needs to share the uncertain conditions in working together
- 4. Needs a problem solving skill to resolve multi-dimensional problems
- 5. Need to save a divided work and promote sharing of resources instead
- 6. Need to share the lessons learned and experiences in working together

These six reasons along with the essential condition of willingness and satisfaction to join the network will result to its establishment.

Advantages of the network

Kanjanaransinon (1999) pointed out the advantages of network as follows:

- 1. Network leads to exchange of data, information, skills, knowledge, experiences, instruments or tools and media throughout the meeting, seminar, laboratory, public relations, and cooperation in the project operation, and support given to all network members or even individual organization;
- 2. Exchange of data, information and cooperation of network leads to decreased workload and repeated utilization of resources resulting to rapid progress of development.
- 3. Network can link people faster and more efficiently, i.e. people who have not met before with different backgrounds, different working methods and different organizations. The arrangement could lead to more understanding among colleagues and other people working together and would benefit every unit in the organization or office.
- 4. Network can assist the interested persons and the organizations to get in contact with each other. Examples are interested persons who wanted to get link to an institution or agency which can assist or help them in solving their problems in an efficient and faster way. Network can also help in looking for a funding source to the person or organization that needs support.

In conclusion, network is the relations model between individual person to individual person, individual person to the group or group to group for the purpose of group management and implementation to reach the target/objective of an individual or an organization.

Cycle of quality control

In the working operation for quality of work, a systematic set of operation steps are followed as illustrated by the diagram of Demming's quality control (Khunpolkaew, 2005) in Fig. 2.

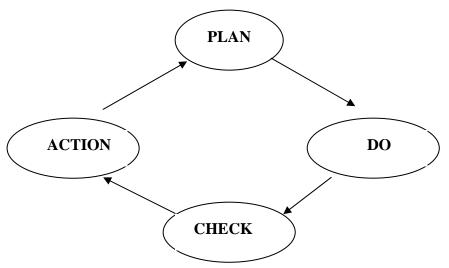


Figure 3 Cycle of quality control

PLAN – Operation plan for work system analysis and point of interest with technique of problem collection and analysis to find out the origin of the problem.

DO – taking action by following the setting plan to test the quality of the operational plan to resolve the problem or source of the problem

CHECK – testing the operations results, observation and finding out the effectiveness of the plan and operations method consequently setting up the standards of suitable operations

ACTION – taking action for quality of output by following the standard and systematic measure in the operation to maintain the quality of work continuously.

It can be said that the cycle of work quality control PDCA can be applied to study and research the system and steps of a clear-cut operation.

4. Related research documentation

Leader and leadership status:

Somudon (2003: Abstract) studied the development of leader who has good moral from the agricultural student involved in the process of future farmer organization of Thailand (FFT) and the objectives of the study are:

- 1) development of the leader who is in good morality among the agricultural students
- 2) comparison of characteristics of the moral leadership of the agricultural student between the ordinary group and trial group by using the model of research trial of Complete Randomized Hierarchical Designs which resulted that the agricultural student has developed moral leadership after the trial is higher than the previous trial even from self-evaluation, friend's evaluation and instructor's evaluation.

Analysis of the results from the testing of assumptions revealed that the development of moral leadership of agricultural student after the trial in different sizes of the institutes is highly significant using statistical method. When analysed the experience of student's activities overlapping with the size of the institute, it was found out that difference in the morality is insignificant. However, when analysis of overlapping of all factors, it was found out that the trial agricultural student got the moral leadership which is highly significant on statistical method.

Maneerod (2004: 13) studied about the leadership characteristics as needed in the high academic institute, training and study command headquarters of the Royal Thai Air Force concluded that the leader characteristics in 4 types as follows:

- 1. Characteristic in leadership status
- 2. Characteristic in personality

- 3. Characteristic in the administration
- 4. Characteristic in the profession

Watana and Ungsurat (1997: Abstgract) studied about the leadership status of agricultural group's president which resulted to the group's activity development in case of Nakhon Pathom Province. The objectives of the study were to determine the relations between the membership conditions and agricultural group's conditions to the success or failure of the president of the agricultural group's leadership status. The data about the agricultural group found out that the average time in the agricultural group establishment is 18.42 years; number of the group's membership did not change much. Almost every group did not have activity as the DOAE's assignment. The most expected activity is provision of agricultural inputs to sell to the members. Aside from this, it was found out that leadership status of president is successful in the real action than expected. The human relationship and morality action were not different in both groups.

Group and Network

The Department of Social Development and Welfare, under the Ministry of Social Development and Human Security (2004: 110) studied about the model supported network. The objective of the study is to find out guidelines to support network which suits to the Department's functions and responsibilities; response to the work strategies; assist the different units of the Department with a more clear-cut work guidelines. This is the quality study method which is done through data collecting with techniques, discussions with focal group and in-depth interview by the Delphi technique.

In-depth interview to the executives in the department and related agencies throughout the workshop and meeting the network core team. The sampling group came from the network core from both official and non-official sides, experts and experienced network personalities, famous academicians, personnel responsible to the

study area (12 from the academic promotion and support). The study was made in the period between January 2004 to August 2004 with 26 officers involved in the study.

Thanapatanapong (2002: Abstract) studied about analysis in communication for agricultural development of agricultural media society of Thailand and found out that the Network of Agricultural Media Society is a multidisciplinary character; the core group is the center of cooperation. There are 3 allies: core group, member group and ally group using the network communication in the horizontal lines on 7 activities as follows:

- Agricultural tour camping
- Country agricultural situation
- Problem solving in the society
- Sharing and cooperation of data information
- The movement of society
- General cases
- Private cases

Poocharoon (2004) showed the research results of the network's possibility development in the authority establishment as follows:

Model of the concept

The establishment of network authority which can develop the power of working together through the use of the strategic process to push forward the members getting deep linkage, emphasis on the network advantage in competition, the process of which are as follows:

- Extend the international cooperation to another's network
- Promote the competition between organization's network

- Build up the network balance
- Develop the authority within the network to have independent management and also be self-reliant

It was found out that the business network in most foreign countries, the authority has good management especially in utilizing the concept of strategic planning which gives importance between authorities resulting to the advantage of authority competitiveness and strengthening.

Prawatwachara (1996: Abstract) studied the way to develop the network system for private university with the objective to establish network for suitable knowledge resources. The results from the different aspects of the study, i.e. survey of basic background, idea and opinion and the need of development of the executives and the instructors came out as the model and tool by getting answers to the questionnaires from 17 experts using EDFR technique for 3 times. From the analysis results a model is synthesized for the executive to make the final check. It was found out that there are two possible components of the authority development model, namely (a) the administration management, and (b) the services.

Management system

Raksakul (1982: Abstract) studied about the problem and constraints of sub-district Agricultural Extensionist training and visiting system (T & V) on the National Agricultural Extension System Development project. It was found out that the 4 provinces in the northeastern part of Thailand engaged in T &V system which provided the knowledge and services to farmers for all over on a regular basis, especially to increase production efficiency and in improving the standard of living, problems encountered by the personnel administration to maintain the agricultural extensionist-farmer ratio of 1:1,000. Also the knowledge in agriculture provided to them is still insufficient and not suited to meet their needs, such as the lack of academic and highly experienced staff to train them.

5. Concept in Curriculum Design

Curriculum is the later word means' Course to Run' or' the running for Victory' (Oliva, 1982), By another definition, curriculum has defined as the contents of subjects which contains knowledge, skill and attitude and will become the objectives of the curriculum, (Theeravit, 2001)

Type of Curriculum

There are many types of curriculum, but for this Study, it will present for 3 types as follows:

- 1. Subject Matter Curriculum
- 2. Competencies Curriculum
- 3. Integrated Curriculum

1. Subject Matter Curriculum

By the wide used, curriculum is the subject which its final concept is knowledge. The contents will come from the specific philosophers, As for Convenience, the Curriculum should be included many subjects (Peernchop, 1977) as follows

- 1) The subject of conceptual Framework
- 2) The subject that emphasizes on contents move than students so that the Subject will include knowledge as its basement
- 3) The subject which set up for adults more than the students' interest
- 4) The subject which emphasize on result-based. All student should have the same learning and exam

- 5) Curriculum can be changed due to the subjects changed
- 6) The special curriculum is not emphases on psychology. Subjects will play as the teaching methods and emphasis on lecturers.
- 7) The system arrangement of subjects which arranged by topics or event, is not suitable for the situation of diary lives. (Dissara, 1992.)

2. Competencies Curriculum

The curriculum which depends on specific competencies has been used in the specific fields such as the Vocational Educations has bring this method in practice evaluation, By last 10 years, There is a new method to control and evaluate the efficiency of accountability and brought out another method which named 'Competencies Based Education' or CBE to train the teacher students. When it is widely used, it is known as' Competencies Based teacher Education. Or CBTE. For the example of curriculum management which emphasizes or competencies curriculum is' The Primary Teacher Curriculum in GE. 1981. 'this curriculum is purposed to produce the primary level' teacher to have high competencies in teaching.

The curriculum which emphasize on competency development has both strengtheness and weakness as follows

Strength tress

- 1) Can be able to increase the practice ability higher then ordinary curriculum
- 2) The curriculum can continue systematically both in simplistic and more experience.

Weakness

- 1) High cost depends on numbers of methodologies, nstruments and tools
- 2) The emphasize on competency without bringing the study ability, may cause bad impression for the specific curriculum. (Untranan.S.1999)

3) Integrated Curriculum

Untranan.S.1999 said The integrated Curriculum is the combination among all specific competencies so that the curriculum is not influenced by each subjects. The instigated curriculum arrangement should take one or more integrations Such as

- 1. Child Centered Curriculum
- 2. Problem, Activities or Living as a center of curriculum

In general, the Integrated Curriculum has both strengthens and weakness as follows.

Strengthens

- 1. The combination both in contents and learning
- 2. Enhance to the basic need of students
- 3. Increase value experience to children
- 4. Create combination among all subjects and fields of knowledge.
- 5. Create skill and ability in various activities
- 6. Create problem Solving by analysation

Weakness

- 1. The problem will occur if the curriculum handbooks is not enough
- 2. The Teaching methodology need more instruments which may cause problems if they are not supplied.
 - 3. Teachers can not understand the curriculum Thoroughly.

6. Indicators (KPI)

Indicators are variables which indicate the characters and represent operation system at a time.

To select the indicators, it need to know: (Pongkay.V.2007)

- 1. The Definition must be simple and easy
- 2. KPI should be measurable
- 3. KPI should have both dependant and independent variable
- 4. KPI should have frequency of reporting

Good Characteristics of Indicators. (Kanganawasee, 2001)

1. Validity It should have important characters

Relevant The indicators should have relationship to the characteristics which is necessary for measurement

Representative The indicators should be represented of all combination of characteristics

- 2. Reliability It should be believable and Station able for many replicate measurements as.
 - 2.1 Objectivity The measurement should be systematic and visible.
- 2.2 Minimum Error The measurement should have least error by taking from relevant source of data
 - 3. Neutrality It should have no bias among characteristics of indicators
- 4. Sensitivity The characteristics that show the clearly variations among analytical units.
 - 5. Practicality It should be convenient for practice in :
- 5.1 Availability Data collection should be convenient in country, measurement and observation.
- 5.2 Interpretability The measurement should be easy to understand by searching for maximization and minimization.(Chalitcheewin.N.2001)

 For human measurement, the indicators are positive achievement, ability, good characteristics, satisfactions and services. For core and functional competency measurement, they are 4 indicators for measurement as follows:
 - 1) The indicators of Agricultural Extentionists' competency
 - 2) The criteria of Agricultural Extentionists' competency
 - 3) The level of criteria of Agricultural Extentionists' competency
 - 4) The check list of Agricultural Extentionists' competency.

CHAPTER III

RESEARCH METHODOLOGY

The research on the competency Development of Agricultural Extensionists' Capacity in Working with Farmers and Networking is the development research using concept of theory and review of previous research results by setting up a *conception framework* of the research method, a model build up and development process of agricultural extensionists'. The steps in detail are as follows:

1. Steps in Research

- 1.1 PLAN: analysis and set up of the characteristic of agricultural extnesionists'
- 1.1.1 Analysis of concept, theory and academic principle in agricultural extension of the agricultural extensionists'.
- 1.1.2 Analysis of farmer's need by in-depth interview with farmer's focal group , and the leader of local administration authority .
 - 1.1.3 Analysis of community's need with focal group's activity
- 1.1.4 Analysis of DOAE's expectations with the farmer's focal group activity and in-depth interview of DOAE's administration and relevant persons.
 - 1.1.5 Characteristic of Agricultural Extensionists'
 - Work completely
 - Potentiality in leading farmer
- Spirit and enthusiasm of agricultural extensionists' to work with the farmer in the focal group's activity

- 1.2 DO: Design and develop the system for the improvement of characteristics of agricultural extensionists'
- 1.2.1 Design the system of the development for agricultural extensionists' from analysis of focal group activity.
- 1.2.2 Developing the characteristic of agricultural extensionists', examine the suitability of self-development by focal group activity; find out the IOC value of the system
 - (a) working together with farmer
 - (b) working together with network
- 1.3 CHECK: Evaluate the potential and competence of agricultural extensionists'
- 1.3.1 evaluate the competence of agricultural extensionists' in utilizing the knowledge base, using questionnaires by focal group activity
- 1.3.2 evaluate the farmer's satisfaction and ability in working with agricultural extensionists' compared with the farmer who did not work with agricultural extensionists', using questionnaires by focal group activity.
- 1.3.3 evaluate the administrator and agricultural extensionists' satisfaction using questionnaire by focal group activity.
- 1.4 ACTION: after checking: create the standard curriculum for agricultural extensionists' development
- 1.4.1 Synthesize the main and minor essential competencies of agricultural extensionists' by focal group activity and find out IOC (value index)

- 1.4.2 Activity setting for agricultural extensionists' development matching with responses to the main and minor essential competencies.
- 1.4.3 Checking the curriculum suitability by providing training on model and system testing.

2. Research Frame

- 2.1 In the pattern of PDCA cycle
- 2.2 Participation from every stakeholders both local and international agencies/authorities all over
- 2.3 Model of agricultural extensionists' building up of the characteristics from the bottom-top requirements (the needs from farmer, community, society, authority) which is the inside-out structure; initiated from the spirit through their potential, then synthesize the function and responsibility with emphasis on the efficiency and outcome.
- 2.4 Farmer's leadership came from the expectation of society, agricultural extensionists' as integrated in the network, dynamic and self-operating.
- 2.5 Every step of work has to pass the approval and certification followed the suitability and trust system as the concept of inside-out approach and outside-in approve.
- 2.6 Analysis and synthesis of Agricultural Extensionists' characteristic, also leading potential and efficiencies resulting from applied focal group activity.

3. Population and sampling

Population in this research is the agricultural extensionists' connecting with the farmer network development or successful agricultural extensionists' who has received outstanding annual awards, farmer groups. Social laboratory is the operational area representing data from sampling group in the community, also the farmer group leader in the community. Such as:

Population and 3 sampling groups in this research

Phase I : To construct the Agricultural Extensionists' characteristics Model and to design and development the training programe.

Phase II: To development Agricultural Extensionists' by training.

- 1. 180 Purposive sampling from farmers and farmer leader in Kanchanaburi, Chiang Rai, Srisaket, Rayong, Pathumthani and Nakorn Sri Thammarat
- 2. 180 Stratified sampling from agricultural extensionists' (sub-district agricultural extension officer) PC3-6 and district agricultural extension officer
- 3.180 Purposive sampling from both local official administrator and private administrator including local leader in the community, tambon leader, village leader, also working groups from tambon administrative authority
- 4. 31 Purposive sampling the agricultural extensionists' in Samut Prakram Province and 100 networking in area
- 5. 26 The concerning expertise from agricultural extensionists', mass communication, HRDProfessional ,The Social researcher

Research tool

- 1. Questionnaire to collect primary data from the farmers, connected persons and experts.
- 2. In-depth interview forms for the focus groups to be collected in the social lab area (focus group, agricultural extensionists and connected persons)
- 3. The Semi-structure Interview and analysis from for the experts in the research points
 - 4. Observation forms for the cooperation responses
- 5. KPI measurement for check and analysis of data obtained on qualifications, authenticity and trust.

Period of Study

Starting from June 2006 until March 2008.

Duration of Research

Table 1 Research Plan and data collection. Using tools collected data as tabulated.

Step	Activity	Data sources	Time
		and Collection	
Plan (1)	1. Analysis of concept, theory	Focus group	June 2006
Analysis and set up	and academic principle in	documentation	to January
of the characteristic	agricultural extension of the		2007
of agricultural	agricultural extensionist.		
extensionist	2. Analysis of farmer's need by	y Focus group	
	in-depth interview with farmer's	documentation	
	focal group, and the leader of		
	local administration authority.		

 Table 1 (Continued)

Step	Activity	Data sources	Time
		and Collection	
-	3. Analysis of community's	Focus group	
	need with focal group's activity	y documentation	
	4. Analysis of DOAE's	Focus group	
	expectations with the farmer's	documentation	
	focal group activity and in-depth		
	interview of DOAE's		
	administration and relevant		
	persons.		
Do (2)	1. Design and develop the	Interview form	February
Design and	system for the improvement		2007
develop the	of characteristics of		
system for the	agricultural extensionist		
improvement of	1.1 self-development		
characteristic of	system		
Agricultural	1.2 working system, work		
Extensionist	together with farmers,		
	network and connected		
	persons		
Check (3)	1. evaluate the competence of	Questionnaire	May
Evaluate the	agricultural extensionist in	and Interview	2007 to
potential and	utilizing the knowledge	form	July 2007
competence of	2. evaluate the farmer's		
agricultural	satisfaction and ability in		
extensionist	working with agricultural		
	extensionist as compared to		
	farmer who did not work		
	with AE (Adoption		
	process)		

Table 1 (Continued)

Step	Activity	Data sources	Time
		and Collection	
Action (4)	1. Synthesize the main and	IOC (value	August
Create the	minor essential	index) finding	2007 to
standard	competencies of AE		Decembe
curriculum for	2. Activity set up for AE		r 2007
agricultural	development matching with		
extensionist	response to the main and		
development	minor essential		
	competencies		

Data Analysis

Using statistical method as follows:

- 1. Quantitative data analysis and presence in descriptive statistics
- 1.1 frequency, distribute the frequency by arranging data number in sequence at same interval, number of data in each interval call frequency

1.2 percentage
$$(\%) = X$$
 when

X = sampling group

N = number of total group

1.3 Average value $\overline{(X)}$ is the value from the total value divided by number of total value:

Formula:
$$\overline{X} = \underline{\sum} x$$
 when N

 \overline{X} = average value of sampling group

 $\sum x = \text{total of the whole number}$

N =the number of data in sampling group

1.4 Analysis of IOC index

Formula:
$$IOC = \sum_{n=1}^{\infty} R$$
 when

 $\sum R$ = total score from the amount of experts in each level of the evaluation

n = total number of experts

1.5 Analysis of data gathering from questionnaires, interview form, researchers using statistics ready program to find the percentile value and quartile value

2. Qualitative Analysis

2.1 Content analysis is the analysis of the content gathered from group meeting and from review of literature and from document gathered from questions and interview of experts and analyzing together with 6 C Model (Kaewnak, 2001)

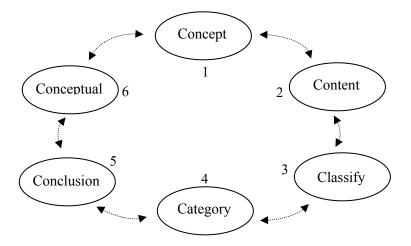


Figure 4 6'c model

2.2 Logical approach is the data analysis connected from content analysis informing the chain of events and the consequences followed by analysis of the data collected, thus making the matrix of logical framework as follows (Wongvanich, 2000).

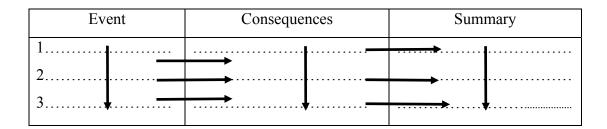




Figure 5 Logical approach is the data analysis

Data Presentation

PLAN Step, is the presentation of data gathered from the review of the meeting documents about characteristics of AE, leadership and leadership Model as farmer, community and society expectations. Presented as lecture (verbal briefing), table and photo chart showing the relationship of each point with emphasis on the conclusion of qualitative and quantitative analyses.

DO Step, is the design of the development system, data gathering for the system to develop the characteristics of AE in self-development to work together with farmers and networks, presented as lecture (verbal briefing), system in constructing model, table and photo chart.

CHECK Step, is the evaluation of the potential of AE, data gathering results to show the adoption of related persons, presented in table and photo charts.

ACTION Step is the synthesis of the competence of AE and activity set up in matching with that competency, data gathering is the handbook, standard curriculum for AE development, presented as lecture, model and operations handbook.

CHAPTER IV

RESULTS OF THE STUDY

Result of the Study the result of Study development of Agricultural Extensionists' capacity in working with Farmers and network were study two phase are follow as:

Phase I : To construct the Agricultural Extensionists' characteristics Model and to design and development the training program.

Phase II: To development Agricultural Extensionists' by training.

The Result of Phase I: The basic data from the document have been studied in many research works both inside and outside the country. Results from document analysis and data collection from small group meetings shows that the four characteristics of an Agricultural Extensionists' from the viewpoint of the stakeholder are the needs of the farmers, Agricultural Extensionists', DOAE and the community and society. Five personal characteristics of an Agricultural Extensionists' are knowledge, leadership, emotion, work skill and informa. Then, the researcher tabulated and performed a matrix analysis, which showed that it has 20 dimensions. They checked its suitability through the process of small group meetings of experts, and came to the conclusion that an Agricultural Extensionists' characteristics are divided into the dimensions as follows:

 Table 2 Characteristics of an Agricultural Extensionists' based on the needs

 of farmers

Characteristics Dimension

Knowledge	Leadership	Emotion	Work Skill	Smart
1. Job	1. Idea	1. Conscious	1. Work	1. Personality
-job planning	-creative ideas	-enthusiasm in	-agricultural	-smart
-communication	-knows how to	agricultural	extension work	-good
-agricultural	praise and	extension work	-transferring	personality
technology	motivate	-dares to face	knowledge	-trustworthy
-local wisdom		immediate	-building up	and faithful to
		problems	knowledge	farmers
2. Psychology	2. Learning	-open mind;		-polite
-community	-building the	accepts other's	2. cooperation	
analysis	learning process	ideas	-problem solving	2. Soul and
-understands	to the	-conscious in	-community's	mind
farmers	community	work	planning and	-wisdom in the
-works with	-good discipline	-good attitude to	practices	agricultural
farmers and	in agricultural	farmers	-strategy of	extension work
community	field	-calm and	agricultural	trustworthy and
		intelligence.	extension work	sincere to other
3.Agricultural	3. Moral		setting	people
Technology	-good man	2. Emotion		-readiness,
-agricultural	- high morality	-devoted to work	3.To set up Ag-	dedicate and
knowledge	and dedication	-can work	Ext Strategy	work for other
-agricultural	in work	together with	- team work	person
extension		farmers	-communication	-inter-relation
technic and		-can change the	participation	with the
development		critical time into	-strategy	community
		the good chance.	thinking	

 Table 3 Characteristics of an Agricultural Extensionists' based on the needs of

 Agricultural Extensionists'

Characteristics Dimension

Knowledge	Leadership	Emotion	Work Skill	Smart
1. Agricultural	1. Leadership	1. Conscious	1. Genius	1. Personality
Context	Status	-self-control	-wisdom	-farmers
-sustainable	-job leader	-fighting spirit	-systematic	confidence
-sufficient	-work in team	-alert	thinking	-farmers faith
economy	management	-dare to face	-psychology	-farmers trus
-community plan	administration	problems		
-knowledge		-solving	2. Cooperative	2. Moral
management	2. Work	conflicts	- communication	-discipline
	-proactive			-punctual
2. Social Context	-good discipline,	2. Mind and	3. Agricultural	-wisdom
-globalization	devoted and	Soul	Extensionist	
-community	tolerant	-ideology	-transform the	3. Spiritual
movement	-utilizes	-spirit	plan into action	-ideology
-systematic ideas	knowledge	-dedication	-community	-percept
-political/social	management	-honesty	analysis	-a model of the
			-lecturer	other
3.Policy	3. Farmers	3. Self-		
Management	Problem solving	Confident		
-planing strategy	-thinking leading	- self		
-Agri-tech	-learning leading	understanding		
management	Academic	-self adoption		
	leading			

Table 4 Characteristics of an Agricultural Extensionists' based on the needs of DOAE staff

Characteristics Dimension **Work Skill** Knowledge Leadership **Emotion Smart** 1. Agricultural 1. Farmers 1. Emotional 1. Work 1. Personality Processing Extension Leadeing Control -good -ag-ext system -thinking leading -stable mind -learning personality -community -Learning -cool mind -smiling face, process planning leading' -transferring bright management -working leading 2 Emotional process environment -cooperative Management -thinking -discrete 2. Creative -community - good -not corrupt, service problem solving emotional -2.Knowledge honest and -agri-valueadded -creative ideas -funny Management transparent -vision in work - learning emotional 2. To use -learning exchange 2. Wisdom 3. Confidence Technology - knowledge -intelligent and - working with 3. Agricultural in work promotion understanding in

- discipline

-ideology

- team work with -concious

- set up working -confidence

network

- integration

- team work

building

plan

- agri-ext

research

3.

n Skill

-writing

-speaking

work

Soul

for other

-trust in

service

professional -readiness to

Communicatio -dedication,

3. Mind and

devote and work

community leader Extension

- agri-technology

-planning strategy

3. Psychology in

- knowledge in

- cocepyual of

- responsible

work

duty

work

Table 5 Characteristics of an Agricultural Extensionists' based on the needs of community and society

Characteristics						
	Dimension					
Knowledge	Leadership	Emotion	Work Skill	Smart		
1. Agricultural	1. Working	1. Emotional	1. Agricultural	1. Behavior		
Extension Work	System	quittance	Extension Field	-honor the		
-agricultural	-strategic idea	-well adjustable	Work	farmers		
technology	-clear cut in the	- realize in	-cooperation	-civil		
-communication	work system	farmer's	-transfer of	consciousness		
-business	-proactive work	valuable	knowledge	-good human		
administration	-work together	-faithful in work	-society	relation		
-psychology in	with leader		communication			
work	-acceptable in	2.Merit and	-work	2. Personality		
-transfer the	work	Moral	administration	-good		
knowledge to	-together with	- morality in	-leadership	personality		
farmers	farmers	work	-work in the field	l-systematic		
	-cooperation	- morality in life		thinking		
2. Agricultural	with line		2. Psychology in	-real action		
Business	agencies	3. Honor	Agricultural	-expertise in		
-production		- farmers	Extension Work	extension work		
-marketing	2Development	adoption	-community	-leadership		
-economic	leader	- respect local	development and			
	- self-	wisdom	society	3.Soul		
3. Services	delelopment	- trus	-inspiration	-ideology		
-together with	-work	community	building	-to attempt		
farmers	development	leader	-to convince	farmers		
-agricultural	-community		farmers	-devote foe		
data provided to	development			farmers		
farmers						

Table 5 (Continued)

	Characteristics				
		Dimension			
Knowledge	Leadership	Emotion	Work Skill	Smart	
-inspiration to	3.Problem		3. Prablem		
the professional	solving Leader		solving skill		
-solving	- occupation		- problem		
farmer's	-agricultural		analysis		
problems	-a devastation in		-building		
	agricultural		participation		
			-creative		
			decision making		

The researcher collected data from primary focus group to make content analysis in the five dimensions of knowledge, leadership, emotions, skills and smart; the importance of each is explained as follows:

- 1. knowledge dimension: Agricultural Extensionists' should have extension knowledge on agricultural technology, psychology, social context, policy management, agricultural extension system, agri-business management and systematic thinking.
- 2. Leadership dimension: Agricultural extensionits' should play a leading rote to stimulate farmers' thinking and learning and process; Be ethical leader, be able do tackle farmer' problem in a creative means; be ready to work proactively and devotedly; can work as a team; take a principle roles on self development, system development and network development.

- 3. Dimension of emotional means an Agricultural Extensionists' understands himself and also can control his emotion, has high responsibility, pride and satisfaction with his, life including the social relations and management of relations between people in the society.
- 4. Dimension of work skill means the capability of an Agricultural Extensionists' to work in the field, work in a team and cooperate in work as suitable with the conditions of the area.
- 5. Dimension of a smartness Agricultural Extensionists' means an Agricultural Extensionists' who is systematic in thinking, capable of work, has high spirit in agricultural extension work and good relations with other persons.

From the characteristics of the Agricultural Extensionists' in each dimension which the expert has analyzed, explained and debated about the value of Agricultural Extensionists' efficiency in each side, it was found the relation connected and compromised in every dimension of development and dissolve into agricultural extensionists' characteristics as shown in figure 6.

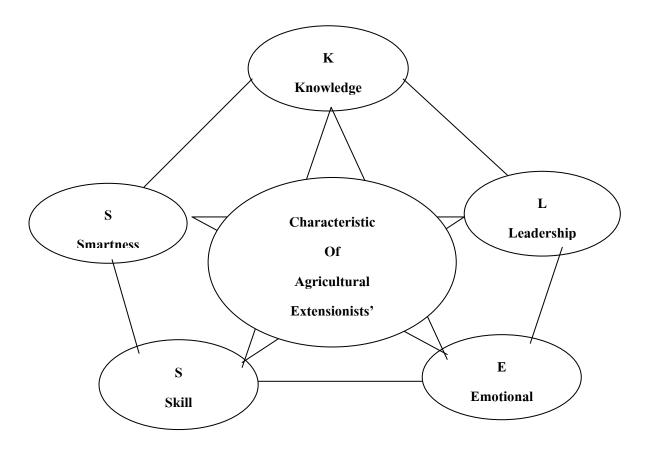


Figure 6 Characteristics relation of each composition of an Agricultural Extensionists' (KLESS Competency Model)

From figure 6, it can be concluded that the characteristics of an Agricultural Extensionists' consist of five dimensions which are: (1) dimension of knowledge (2) dimension of leadership (3) dimension of emotions (4) dimension of work skill and (5) dimension of smartness Agricultural Extensionists'; Characteristics in each dimension are related and linked with each other. This reflects the integrated capacities of Agricultural extensionits' in teems of knowledge, leadership, emotion, working shill and smartness that are required by all parties concurred.

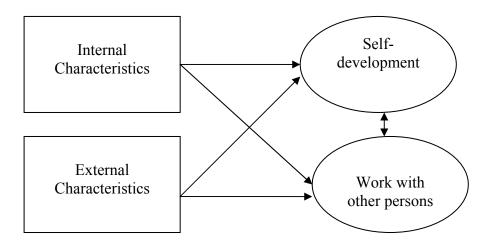


Figure 7 Agricultural Extensionists' Development Guide

From the study, data collected in the community area and results from small group meetings give important suggestions which are linked to the design of the system for Agricultural Extensionists' development processes, starting from training curriculum including subjects to develop the Agricultural Extensionists'by the characteristic follow the KLESS Competency Model: systematic planning, the monitoring and evaluation for characteristics of Agricultural Extensionists', also the adjustment and structure of the Department of Agricultural Extension development. This would require the support and the aspiration for a suitable and progressive development of Agricultural Extensionists' as figure 8.

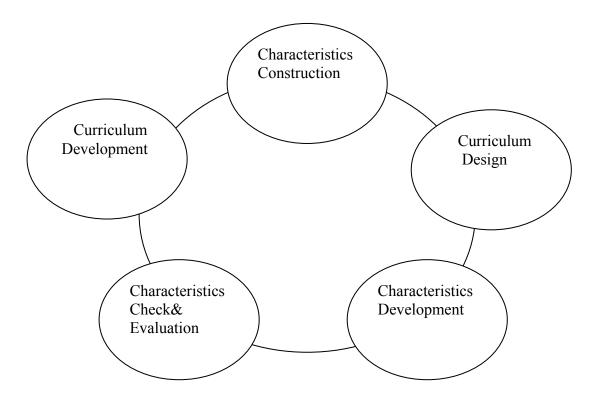


Figure 8 Process of development Agricultural Extensionists'

Building up the model and hand book for systematic development of Agricultural Extensionists' to have partial in work with farmers and network.

To. construct the model and hand book for systematic development of Agricultural Extensionists' capacity in work with farmer and Network.

Setting up the competency and ability of Agricultural Extensionists' to have Characteristics suitable to the role of work to reach the need targets which are in 2 forms as follows:

- 1) Core competency: the competency which result to the direct success of the duty of Agricultural Extortionists'.
- 2) Functional competency: additional competency which support the duty of Agricultural Extortionists' to give more work quality.

We can say that the role of Agricultural Extensionists' will be successful in both extension Administration (in cluding studying processes and development) and value added should have both core and functional competency.

From the analysis of the Characteristics for Agricultural Extensionists' which are compiled according to the 5 dimensions of KLESS Competency Model; Each dimension can set up the core competency and function competency to complete each Characteristics of Agricultural Extensionists' to prepare readiness to work as shown in the table.

Table 6 Analysis of Agricultural Extortionists' following KLESS Competency Model (both core competency and functional competency.

Dimension	Core Competency	Functional Competency
Knowledge	1.Understanding in producing	g 1.Understanding the social
competency	the strategic schemes	important issue.
	2.Knowledge in high	2.Having a knowledge about the
	thinking.	policy management.
	3.Understanding the truly	3.Knowledge for providing
	agricultural meaning	consults and advices to others
	4.Knowlege on agricultural	4.Understanding the local
	business issue .	wisdom of villagers.
	5. Understanding on the	5.Understanding the measures
	administration policy to	used for communication with
	support the agricultural issue	es others.
	6.Understanding on	6.Understanding the
	teamwork meaning	management system of
	7.Understanding the	knowledge supporting
	psychology system.	agricultural issues.
	8.Knowing works to	
	agricultural Extension	

 Table 6 (Continued)

Dimension	Core Competency	Functional Competency
Leadership	1.Leadership	1.Bring learning to farmers.
competency	3.Leadership in solving the	2.Moral and ethics.
	agricultural problems.	3.Devote and sacrifice oneself
	4.Leadership of developing	for agriculture.
	the team working system.	4.Leading in communication.
	5.Becoming the team	5. Ability in persuading others '
	leadership	minds.
	6.The working vision.	6.To become oneself as an
	7.Relationship.	example for farmers.
	8.To become the leader in	7.Becoming a discipline person
	thinking.	8. Transferring the knowledge.
	9.To become the leader in	
	developing personals,	
	worker, job and	
	organization.	
EQ competency	1.Emotional qualification.	1. Mindfulness controls oneself
	2. Carefulness and patience.	2. Give an honor to others.
	3. Positive thinking.	3.Helpful mind.
	4. Using the moral issue	4.Emotion is good and smiling.
	leading oneself.	
	5.Consciousness in working.	
	6.Self confidence.	
Skill competency	1.There is high thinking skill.	1.The skill in managing the
	2.Skill is used on the	exchanging-learning stage.
	agricultural system.	2.Managing on term of policy.
	3. There is a skill in	3. The skill in communication.
	management of agricultural	4. Working with the community
	business	people.

Table 6 (Continued)

Dimension	Core Competency	Functional Competency
	4.There is skill in	5. The skill on the facilitator of
	management of knowledge	farmers.
	to support agricultures.	6.Resources of local wisdom.
	5. The great issues of	
	scholarship.	
	6. There is a skill on	
	managing the Team Work.	
	7. There is a skill supporting	
	the agricultural issues.	
	8.The skill in	
	communication.	
	9.The skill on strategy	
	planning.	
	10. The skill in solving the	
	problems of farmers.	
Smartness	1. Characteristic	1.Creating faith to others
competency	2.Good behaviors.	2. Advancing work
	3. Support morals .	3. There is an ideal of
	4. Soul in working .	supporting.
	5. Scholar	4. There is interest and is
		seeking more knowledge

From core competency and functional competency bring these to the measurement of the Harmonization in each dimension of KLESS competency model as:

Table 7 Analyzing the indicator 's similarity indexes in each dimensions of the KLESS Competency Model First dimension : knowledge competency Core Competency

		Level of evaluation			
Indication / criteria	Check List	good	medium	To	IOC
				improve	
1.Understanding in	1.1 Have a				0.8
producing the	vision.				
strategic schemes.	1.2 Have a				
Indicator : There is a	clear				
knowledge in	practical				
producing strategic	measure.				
schemes and able to	1.3 Able to				
achieve the scheme,	practice				
correctly.	really.				
Criteria: Good -					
Producing the strategic					
scheme correctly.					
Medium – Producing					
the strategic matters					
completely					
Improving – The					
strategy was made, not					
perfect strategic					
schemes.					

 Table 7 (Continued)

		Level of evaluation			
Indication / criteria	Check List	good	medium	To	IOC
				improve	
2.Knowledge in high	2.1 Complete				0.6
thinking.	matters in 10				
Indicator : There is an	thinking				
understanding in	dimensions.				
thinking system of 10	2.2 Clearness				
dimensions on them	in explanation.				
can be explained.	2.3 Able to				
Criteria : Good -Able	generate in				
understanding and the	accordance				
thinking system can be	with the				
well -explained .	thinking				
Medium –There are	system in				
some understandings	reality.				
and they are able to be					
explained.					
Improve –Not					
understanding or the					
thinking system could					
not be explained.					
3.Understanding the	3.1 Complete				0.6
truly agricultural	matters are				
meaning	produced in				
Indicator : Having a	every				
knowledge about the	dimensions.				
agricultural core issue	3.2 Clearness				
and it can be	of all matters is				

 Table 7 (Continued)

	Level of evaluation			
Check List	good	medium	To	IOC
			improve	
produced in				
every				
dimensions.				
4.1 Generally				1.0
involved				
situations.				
4.2 The fact				
point /				
problems.				
4.3 Solving /				
tendency.				
4.4 Proposal .				
4.5 Academic				
subjects.				
	produced in every dimensions. 4.1 Generally involved situations. 4.2 The fact point / problems. 4.3 Solving / tendency . 4.4 Proposal . 4.5 Academic	produced in every dimensions. 4.1 Generally involved situations. 4.2 The fact point / problems. 4.3 Solving / tendency . 4.4 Proposal . 4.5 Academic	produced in every dimensions. 4.1 Generally involved situations. 4.2 The fact point / problems. 4.3 Solving / tendency . 4.4 Proposal . 4.5 Academic	produced in every dimensions. 4.1 Generally involved situations. 4.2 The fact point / problems. 4.3 Solving / tendency . 4.4 Proposal . 4.5 Academic

 Table 7 (Continued)

		Level of evaluation			
Indication / criteria	Check List	good	medium	To	IOC
				improve	
exactly.					
Medium – Able to					
analyze all concerned					
situations.					
Improve – Able to					
analyze some situations					
concerned.					
5.Knowlege on	5.1 Analyzing				0.8
agricultural business	the fact.				
issue	5.2 Analyzing				
Indicator : Able to	the problem.				
analyze the political	5.3 Using the				
changing situations and	academic issue				
transfer them to other	to become the				
persons .	reference.				
Criteria : Good –	5.4 Producing				
Analyzing them from	the conclusion.				
facts, problems,	5.5 Proposals.				
academic issues,					
conclusions and					
proposals Medium –					
Analyzing them from					
facts, problems,					
conclusions and					
proposals, but they are					
not complete.					
Improve – Analyzing					

 Table 7 (Continued)

			evaluation		
Indication / criteria	Check List	good	To	IOC	
				improve	
them from some facts,					
some problems, some					
academic issues, some					
conclusions and some					
proposals					
6.Understanding on	6.1 Component				
teamwork meaning.	of the team.				
Indicator :					
Understanding the	6.2 Building				
issue including on how	the team				
to make a team	managing				
working, including	system.				
producing works					
needing the teamwork.	6.3 Developing				
Criteria : Good –	the team.				
Producing the works					
for teamwork,	6.4 Prolonging				
systematically.	the team.				
Medium – Able to					
produce works for					
teamwork.					
Improve – Producing					
works for teamwork,					
not perfect.					
7.Understanding the	Check List				0.8
psychology system.	7.1 The				
Indicato r : having a	characteristic				

 Table 7 (Continued)

		Level of evaluation			
Indication / criteria	Check List	good	medium	To	IOC
				improve	
knowledge of	of the target				
psychological issue to	persons .				
boost and analyze the	7.2 Analyzing				
target persons.	the data.				
Criteria: Good – Able	7.3 Adjusting				
to understand and	the psychology				
analyze the target	system for				
persons correctly.	working .				
Medium : having a	7.4 Using a				
knowledge and	special				
analyzing the target	technique to				
persons	focus on				
Improve – having	psychology.				
knowledge and					
analyzing some target					
persons .					
8.Knowing works to	8.1 System.				0.6
support the					
agricultural fields .	8.2 Technique.				
Indicator : Having all					
knowledge to support	8.3 Management				
on agricultural systems	and administration				
including on how to					
explain the such	8.4 Clear				
knowledge clearly.	explanation.				
Criteria : Good –					
Able to explain it very	8.5 Assessment				

 Table 7 (Continued)

			Level of	evaluation	
Indication / criteria	Check List	good	medium	To	IOC
				improve	
well and the knowledge					
is perfect.					
Medium - Able to					
explain it .					
Improve – Able to					
explain on some what .					
1.Understanding the	1.1 Understanding				0.6
social important issue.	the social				
Indicator : Analyze	issue.				
the data concerning the					
social significant issue	1.2 Synthetizing				
and it's results can be	or analyzing				
used for working.	the social				
Criteria : Good –	problems .				
Analyze or synthetize					
the social significant	1.3 The social				
issue, correctly and	behaviors.				
exactly.					
Medium : Able to					
analyze or synthetize					
the social significant					
issue.					
Improve – Analyzing					
or synthetizing the					
social significant issue					
is not perfect.					

 Table 7 (Continued)

		Level of evaluation			
Indication / criteria	Check List	good	medium	To	IOC
				improve	
2.Having a knowledge	2.1 There is an				0.8
about the policy	understanding				
management.	of the policy.				
Indicator : Having an					
understanding and	2.2 There is a				
capability in the policy	conduction on				
management and it can	the policy				
be well used for daily					
work	2.3 Administration				
Criteria : Good – Able	and changes				
to manage on the	according to				
policy and it can be	the policy.				
well used for daily					
work .					
Medium – Able to set					
up the policy and adjust					
it to be worked daily.					
Improve –Capability in					
management of the					
policy or it can be					
partly adjust for daily					
work.					
3.Knowledge for	3.1 Understanding				0.6
providing consults	the farmer				
and advices to others	problems .				
Indicator : There is a					
knowledge and an					

 Table 7 (Continued)

		Level of evalu			Level of evalua	Level of evaluation		
Indication / criteria	Check List	good	medium	To	IOC			
				improve				
understanding on	3.2 Analyzing							
measures or systems to	the farmer							
give consults for	problems .							
farmers or for								
becoming consultant	3.3 Knowing							
with them.	on how to							
Criteria : Good –	solve the							
Knowledge and an	farmer							
understanding as well	problems.							
as becoming a good								
consultant for farmers .								
Medium – Knowledge								
and understanding of								
agricultural works								
including being able to								
become consultant with								
farmers.								
Improve – Knowledge								
and understanding on								
the agricultural works								
is partly consulted with								
farmers.								
4.Understanding the	4.1 Understanding							
local wisdom of	the farmer's							
villagers.	significant							
Indicator : There is	knowledge.							
knowledge about local								

 Table 7 (Continued)

		Level of evaluation			
Indication / criteria	Check List	good	medium	To	IOC
				improve	
wisdom and bring that	4.2 Transferring				
to be adjusted for	the new				
conducting daily duties	knowledge.				
to meet the successful	4.3 Applying				
job .	the local				
Criteria : Good –Bring	wisdom.				
the local wisdom to be					
adjusted for daily					
works in success.					
Medium – Able to					
bring the local wisdom					
to be adjusted for daily					
works.					
Improve – Knowing					
the measure is not well.					
5.Understanding the	5.1 Communication.				0.8
measures used for	5.2 the central				
communication with	communication				
others.	5.3 Producing				
Indicator : There is an	essences.				
understanding of	5.4 Knowing				
communication with	the communication				
others which can be	's way.				
adjusted for the target	5.5 Knowing				
purposes.	the results of				
Criteria : Good –	the communication				
Understand the					

 Table 7 (Continued)

			Level of	evaluation	
Indication / criteria	Check List	good	medium	To	IOC
				improve	
communication system					
and meet the success of					
communication.					
Medium – Understand					
the communication					
system.					
Improve –					
The communication is					
partly understood					
6.Understanding the	6.1 Understanding				0.6
management system	of the knowledge				
of knowledge	managing.				
supporting	6.2 Building a				
agricultural issues.	learning stage				
Indicator : There is an	6.3 Developing				
understanding or how	the learning				
to manage knowledge	system.				
and build the best	6.4 Building				
practice in the	the best				
fieldwork.	practice.				
Criteria : Good –					
Conduct on the					
knowledge					
management and the					
best practice happened.					
Medium – Conduct on					
the knowledge					

 Table 7 (Continued)

		Level of evaluation			
Indication / criteria	Check List	good	medium	To	IOC
				improve	
management and the					
best practice happened.					
Improve –Conduct the					
knowledge					
management and some					
best practices occurred.					

Table 8 Analyzing the indicator 's similarity index in each dimensions of the KIESS Model Second dimension : the leader competency Core Competency

	Check List	Level of evaluation		
Indication / criteria		good medium	To	IOC
		i	mprove	
1.Leadership	1.1 Have a vision			1.0
Indicator : There is a	1.2 Dare to think /			
leadership and	conduct.			
capability to meet the	1.3 Dare to lead the			
expected target.	changes.			
Criteria : Good –Able	1.4 To meet the			
to bring works to	success and bring the			
advise other persons to	persons, who			
meet the success.	conducted on the			
Medium – Able to take	measure to meet their			
those works for others	happiness			
in which will lead them				

 Table 8 (Continued)

		Level of evaluation		
Indication / criteria	Check List	good medium	To	IOC
		i	mprove	
to meet the target.				
Improve –Able to				
works or bring others,				
who conducted on				
those measures, to				
meet the target success				
2.Readiness for	2.1 There is a new			0.8
conducting the	thinking system.			
challenging works.	2.2 Concentrating			
Indicator : Able to	on the new working			
think a new system	system.			
different from the	2.3 Developing the			
existing one or the new	good working			
working way.	behaviors.			
Criteria : Good –	2.4 Building a new			
There is a new working	working system.			
conduction, which is				
the new system.				
Medium – There is a				
new working system.				
Improve –There is				
only an existing				
working method.				
3. Leadership in	3.1 Bring analyzing			0.6
solving the	the agricultural			
agricultural	problem 's results			

 Table 8 (Continued)

		Level of evaluation			
Indication / criteria	Check List	good medium	To	IOC	
		improve			
problems.	to be considered				
Indicator : There is an	carefully.				
understanding and a	3.2 Take the limited				
capability to solve	causes of the				
agricultural problems at	problem to be				
their root points.	considered				
Criteria: Good –	carefully.				
Totally solve	3.3 Take the				
problems.	understanding of				
Medium – Solve some	agricultural				
problems only.	problems to be				
Improve – Unable to	considered				
solve the problem.	carefully.				
	3.4 Help release the				
	farmer's suffering				
	problems.				
4.Leadership of	4.1 Producing the			0.8	
developing the team	clear working plan				
working system.	is a system.				
Indicator : There is a	4.2 Limiting the				
clear working system	working process				
and there is able to	4.3 Transferring				
transfer the system, as	the working system.				
an example, for other					
persons.					
Criteria : Good – It is					
a clearly working					

 Table 8 (Continued)

		Level of evaluation		
Indication / criteria	Check List	good medium	To	IOC
		improve		
measure or there is a				
working system.				
Medium – There is a				
clear working system.				
Improve – There is no				
clear working measure				
or there is no working				
system.				
5.Becoming the team	5.1 There is a			0.8
leadership.	system to build a			
Indicator : Building	teamwork.			
the administration team	5.2There is a			
for the team and build	working in team.			
the network team in the	5.3There is a			
field to become firm.	network for the			
Criteria : Good –	team.			
There is a strong team				
and a network in the				
field.				
Medium – There is a				
strong team in				
conducting works.				
Improve –There is a				
teamwork in the field.				
6.The working vision.	6.1 There is a			0.8
Indicator : There is a	creative thinking.			
vision developing to be	6.2 Build a new			

 Table 8 (Continued)

		Level of evaluation			
Indication / criteria	Check List	good	medium	To	IOC
			i	mprove	
suitable with the	thing for working .				
situation changes based	6.3 There is a				
on the creative thinking	thinking system in				
and the result	working.				
appearance.	6.4 There is a				
Criteria : Good –	transferring of the				
There is a creative	vision.				
vision to improve the					
better work.					
Medium – There is a					
good creative idea .					
Improve – There is a					
simple working					
development.					
7. Relationship.	7.1 There is a good				
Indicator : There is a	conduction with				
good relationship in	farmers .				
working together with	7.2 He or she is				
others and the job	favorable for				
meets the success.	farmers .				
Criteria : Good –	7.3 He or she is the				
There is a good	faith of farmers.				
relationship to support	7.4 There is a				
the success in working.	communication				
Medium – He or she	outside.				
has a good relationship	7.5 There is a				
	success on				

 Table 8 (Continued)

		Level of evaluation				
Indication / criteria	Check List	good	medium	To	IOC	
		improve			:	
Improve – There is no	communication.					
relationship in working.						
8.To become the	8.1 There is a					
leader in thinking.	thinking measure to					
Indicator : Able to	support the					
think and to let others	agriculture.					
think and conduct	8.2 There is an					
along with him or her	exchange of					
in the creative way	learning with					
including ability to	farmers .					
build the vision in	8.3 To install the					
working.	Best Practice with					
Criteria : Good –	the network.					
There is a						
communication in						
system and becoming						
the leader in working						
Medium –There is						
thinking systematically.						
Improve –There is no						
thinking process in the						
system						

 Table 8 (Continued)

		Level of	on	
Indication / criteria	Check List	good medium	To	IOC
		i	mprove	
9.To become the	9.1 Build a new			
leader in developing	form for developing			
personals, worker,	oneself.			
job and organization.	9.2 There is a			
Indicator : There is a	learning method to			
learning and the leader	develop the			
to improve and develop	personals.			
the personals, workers,	9.3 Build a process			
jobs and organization	to develop jobs and			
to go with the	organization.			
situations and to meet	9.4 There is a			
with the targets.	success from			
Criteria : Good –	leading in			
There is a new form	development.			
and a new choice in				
developing the				
personals, workers,				
jobs and organization.				
Medium – There is a				
choice in developing				
the personals, workers,				
jobs and organization.				
Improve – There is a				
development, but there				
is no complete.				

 Table 8 (Continued)

		Level of	evaluati	on
Indication / criteria	Check List	good medium	To	IOC
		improve		
1.Bring learning to	1.1 Set-up a			0.6
farmers.	learning exchange			
Indicator : There is a	stage.			
process to set up a	1.2 Build an			
learning atmosphere	atmosphere for			
scheme for farmers, in	learning .			
which causing a	1.3 Expansion of a			
learning network and	learning result.			
the Best Practice in	1.4 Build a learning			
agricultural profession	network.			
for them.	1.5 Building the			
Criteria : Good –	Best Practice for a			
There is a setting –up	learning.			
of a learning process				
and a learning network				
Medium –There is a				
learning building.				
Improve – There is no a				
learning stage and a				
learning building.				
2.Moral and ethics.	2.1 Sympathize and			0.8
Indicator : There is a	understand other			
moral and ethic system	persons.			
, including equality , in	2.2 Becoming equal			
working.	and justice to every			
Criteria : Good -	person .			
There is an moral and	2.3 There is an			

 Table 8 (Continued)

		Level of evaluation			
Indication / criteria	Check List	good medium	To	IOC	
		i	mprove		
ethics as well as	believable and				
equality in working.	trusty manner.				
Medium – There is a					
moral and ethics in					
working.					
Improve – There is a					
moral or ethics in					
workin.					
3.Devote and sacrifice	3.1 Devote the			1.0	
oneself for	body ability for				
agriculture.	agriculture.				
Indicator : Devote and	3.2 Work outside				
sacrifice oneself, both	the official time.				
the body and mind, to	3.3 Offer personal				
work inside and outside	property.				
the official time.	3.4 Try to work at				
Criteria : Good –	most for good				
There is always a	general results of				
devoting and a sacrifice	every persons.				
oneself for working .					
Medium – Devote and					
sacrifice oneself.					
Improve –There is no					
devoting and no					
sacrifice oneself.					

 Table 8 (Continued)

		Level of evaluation		
Indication / criteria	Check List	good medium	To	IOC
		i	mprove	
4.Leading in	4.1 Begin in			1.0
communication.	relation.			
Indicator : There is a	4.2 There is			
capability in	working together			
communication ,both	with others.			
inside and outside	4.3 There is a			
organization, aiming to	success in working			
meet the success and	together with other			
cooperation among	persons .			
workers in the	4.4 There is a			
organization both	network linking to			
inside and outside as	other persons .			
well.				
Criteria : Good –				
There is a good				
relationship in working				
both inside and outside				
the organization.				
Medium - There is a				
relation inside the				
organization.				
Improve – There is no				
relationship both inside				
or outside the				
organization.				

 Table 8 (Continued)

		Level of	evaluatio	n		
Indication / criteria	Check List	good medium	To	IOC		
		improve				
5.Ability in	5.1 There is an			0.8		
persuading others '	experience of					
minds.	speaking.					
Indicator : There is a	5.2 Changing the					
capability in	farmer behaviors .					
persuading others '	5.3 There is a					
minds to change their	success of					
behaviors to let works	persuading					
meet the target success.	5.4 There is a					
Criteria : Good –	cooperation with					
There is a persuading	farmers					
of others' minds to						
conduct works with						
satisfaction.						
Medium – There is a						
persuading of others'						
minds to adjust in						
working.						
Improve – There is no						
any persuading of						
others in working.						
6.To become oneself	6.1 Setting up the			0.6		
as an example for	suitable oneself.					
farmers.	6.2 Advising in					
Indicator : There is	working for farmers					
setting oneself 's	6.3 Changing the					
practice able to become	farmers' behaviors .					

 Table 8 (Continued)

		Level of	evaluati	ion
Indication / criteria	Check List	good medium	To	IOC
		improve		
a good example to	6.4 Establish the			
farmers, in term of	good example			
thinking, working and	farmer network.			
changing on farmers				
behaviors.				
Criteria : Good –				
Becoming a good				
example and a good				
advice to farmers.				
Medium –Becoming an				
example and an adviser				
to farmers.				
Improve – It can not				
become an example or				
an pointing out for				
farmers .				
7.Becoming a	7.1 Practice in			0.8
discipline person.	accordance with the			
Indicator : Practicing	rules .			
oneself strictly in the	7.2 Build the			
discipline and getting	disciplines in a			
the satisfaction from	teamwork.			
the commander.	7.3 To become an			
Criteria : Good –	example of			
Those are seen to	observing the			
observe the discipline	discipline in			
fully until they are	teamwork.			

 Table 8 (Continued)

		Level of	Level of evaluation		
Indication / criteria	Check List	good medium	To	IOC	
		i	mprove		
praised by others.	7.4 He or she has				
Medium – Able to	ever been				
observe strictly on the	investigated about				
discipline.	their discipline.				
Improve – Sometime,					
they could no observe					
the discipline.					
8.Transferring the	8.1 Understand the			0.8	
knowledge.	transferring 's				
Indicator : There is a	measure .				
knowledge and	8.2 There is an				
capability in	experience in				
transferring various	transferring the				
knowledge to farmers	knowledge .				
in order to let them	8.3 There is an art				
practice according to	in transferring the				
that knowledge and	knowledge .				
meet the success.	8.4 The success				
Criteria : Good –	occurred to farmers.				
There is a capability in					
transferring the					
knowledge for farmers					
and they can well					
practice on that					
knowledge.					
Medium - There is					
ability in transferring					

Table 8 (Continued)

	Level of)n		
Check List	good medium To improve	IOC		
	improve			
	Check List	Check List good medium		

Table 9 Analyzing the indicator 's similarity index in each dimensions of the KLESS Model Third dimension : Competency of EQ Core Competency

		Level of evaluation			
Indication / criteria	Check List	good medium	To	IOC	
		improve			
1.Emotional	1.1 Understanding			1.0	
qualification.	oneself and others .				
Indicator : Able to	1.2 Controlling				
understand oneself, to	oneself 's emotion.				
control oneself and to	1.3 There is a good				
understand others very	attitude to oneself.				
well including having a	1.4 There is a				
self faith and a good	good attitude to				
oneself attitude, works	farmers .				
and farmers.					
Criteria: Good – There					
is an emotional					
qualification, an ability					
to control oneself and an					
understanding other					

Table 9 (Continued)

		Level of o	Level of evaluation		
Indication / criteria	Check List	good medium	To	IOC	
		i			
persons in working.					
Medium – There is an					
emotional qualification					
to control oneself.					
Improve - There is no					
emotional qualification					
to control oneself					
2.Carefulness and	2.1 There is an			0.8	
patience.	addition of				
Indicator : There is a	attraction for				
working psychology	farmers .				
used creating attraction,	2.2 See values of				
morale and willpower	farmers				
for farmers.	2.3 There is an				
Criteria : Good – Use	creating morale for				
psychology in working	farmers.				
to build attraction,	2.4 Being a careful				
morale and willpower	person.				
for farmers .	2.5 Being a calm				
Medium – Understand on	person				
how to build attraction					
and morale and willpower					
for farmers					
Improve – There is no					
understanding on how to					
work or seeing value of					
farmers.					

 Table 9 (Continued)

		Level of evaluation			
Indication / criteria	Check List	good m	edium	To	IOC
			i	mprove	
3. Positive thinking .	3.1 There is a				0.8
Indicator : There is a	creative thinking to				
positive thinking	support farmers.				
process, being the	3.2 Becoming an				
optimism, creating a	optimism person.				
new thing in working	3.3 Build a new				
system.	thing in working.				
Criteria: Good – There					
is a good attitude such as					
becoming the optimism,					
including thinking a new					
thing in the world.					
Medium –There is a					
good attitude, becoming					
the optimism including					
creating new things in					
the world.					
Improve – There is no					
good attitude, seeing all					
things pessimism or					
there is no building a					
new thing in the world.					
4.Using the moral issue	4.1 Provide justice				0.8
leading oneself.	and equality.				
Indicator : Using moral	4.2 Work with				
issues leading in	transparency.				

Table 9 (Continued)

		Level of	evaluatio	n	
Indication / criteria	Check List	good medium	То	IOC	
		i	mprove	!	
working such as giving	4.3 There is a				
equality and justice to	morale issue				
every persons	leading oneself.				
Criteria : Good –Using	4.4 Using the moral				
moral issues and ethics	system in working .				
leading works including					
equality and justice.					
Medium – Using moral					
issues and ethics leading					
works.					
Improve – No using					
moral issues and ethics					
leading works.					
5.Consciousness in	5.1 Conduct				
working.	benefits for the				
Indicator : There is a	majority.				
responsibility by seeing	5.2 Sacrifice				
benefits of majority	oneself for works .				
more than personal	5.3 Concentrate on				
benefits and working on	the success of				
duty with intention and	works .				
agreeing to sacrifice	5.4 Have a real				
every thing .	intention to become				
Criteria: Good – There	responsible for				
is responsibility for the	works.				
majority works , paying					
intention and					

 Table 9 (Continued)

		Level of evaluatio			
Indication / criteria	Check List	good medium	To	IOC	
		i	mprove		
scarification to works.					
Medium – There is					
responsibility for the					
majority work.					
Improve – There is no					
responsibility to the					
majority work .					
6.Self confidence.	6.1 There is an			1.0	
Indicator : There is a	understanding in				
good mind in working	works .				
and is favorable by the	6.2 There is a				
society.	system in working.				
Criteria: Good – There	6.3 Polite and				
is moral issues to work,	become gentle to				
having a good mind and	farmers .				
self confidence.	6.4 Self confidence.				
Medium : There is a					
system in working,					
having a good mind and					
self confidence.					
Improve – Lack of self					
confidence in working.					
1. Mindfulness controls	1.1 There is			1.0	
oneself.	mindfulness in				
Indicator : There is a	speaking.				
mindfulness in thinking	1.2 There is				
and doing on what is	mindfulness in				

 Table 9 (Continued)

		Level of	evaluati	tion	
Indication / criteria	Check List	good medium	To	IOC	
		i	mprove	e	
right and in supporting	proposing the				
desires of farmers,	works.				
including daring to	1.3 Dare to do				
refuses on what is the	what is right.				
wrong thing and holding	1.4 Refuse what is				
up on oneself wisdom.	wrong.				
Criteria: Good – There	1.5 There is				
is a mindfulness in	mindfulness on				
thinking, speaking and	oneself in				
doing including	continuing life.				
delivering works					
perfectly.					
Medium – There is					
mindfulness in thinking,					
speaking and doing					
together with delivering					
works .					
Improve – There is no					
mindfulness in thinking,					
speaking and doing					
together with delivering					
imperfect works.					
2.Give an honor to	2.1 Respecting an			1.0	
others.	honor in oneself.				
Indicator : There is an	2.2 Give an honor				
honor in oneself and an	to others.				
honor given to others,	2.3 Respect ranks				

Table 9 (Continued)

		Level of evaluation			
Indication / criteria	Check List	good	medium	To	IOC
			i	mprove	
including understanding	of others .				
an importance of human	2.4 Keep on oneself				
being.	honor and others.				
Criteria : Good –					
Giving and keeping an					
honor in oneself and					
others very well.					
Medium – There is an					
giving honor and					
keeping an honor to					
oneself and others.					
Improve – There is a					
part to give and keep the					
honor for oneself and					
others.					
3.Helpful mind.	3.1 There is a				0.8
Indicator : There is a	giving.				
good and helpful mind,	3.2 Becoming a				
including mercy to	good mind.				
surrounding persons.	3.3 Becoming a				
Criteria : Good –	mercy to others.				
Becoming a good mind	3.4 Help for				
and always becoming	farmers .				
helpful to surrounding					
persons.					
Medium – Being a					
beautiful mind.					

 Table 9 (Continued)

		Level o	f evaluati	aluation		
Indication / criteria	Check List	good medium	То	IOC		
			improve			
Improve – There is no						
the helpful and mercy						
mind to others .						
.Emotion is good and	4.1 Becoming a			0.8		
smiling.	good emotion.					
Indicator : Becoming a	4.2 Becoming the					
stable emotion including	comedy emotion.					
smiling to others on	4.3 Able to manage					
which able to work amid	on oneself emotion.					
various conflicts.	4.4 Ready to work					
Criteria : Good –	in pressuring					
Smiling and unchanging	situation.					
to any emotion pressures						
, the emotion is stable.						
Medium – Smile and						
unchanging to what						
pressure on working.						
Improve – No smiling or						
changing to what						
pressure in working.						

Table 10 Analyzing the indicator 's similarity index in each dimension of the KLESS Model Fourth dimension : Competency on skill capable to work Core Competency

		Level of evaluation			
Indicator / Criteria	Check List	good	medium	to	IOC
				improve	
1.There is high	1.1 Thinking in the				1.0
thinking skill.	viewing process				
Indicator : There is a	1.2 Thinking on a				
thinking skill of 10	new system.				
dimensions developing	1.3 Producing a				
and adjusting the attitude	thinking system in				
process in working with	solving the				
farmers perfectly	problem.				
Criteria : Good –A	1.4 There is an				
thinking system in 10	analyzing thought				
high dimensions each is					
used.					
Medium – Able to use					
high thinking system.					
Improve – There is no					
usage of the high					
thinking system.					
2.Skill is used on the	2.1 Understanding				1.0
agricultural system.	the agricultural				
Indicator : There is a	system				
skill in working with	2.2 Knowing the				
farmers and	agricultural systems				
understanding on	2.3 Applying the				
agricultural matters,	agricultural system				
including capability of	for farmers.				

Table 10 (Continued)

			Level of e	evaluation	
Indicator / Criteria	Check List	good	medium	to	IOC
				improve	
working to drive farmers					
to meet the satisfaction					
and meet their success.					
Criteria : Good – There					
is a success of changing					
behaviors of farmers					
stemming from using					
their skill, knowledge					
and capability.					
Medium : Changing					
farmers' behaviors by					
entering the farmers '					
agricultural system.					
Improve – There is no					
changing behaviors of					
farmers or no					
understanding the					
agricultural system.					
3. There is a skill in	3.1 Know agricultural				0.6
management of	market systems.				
agricultural business	3.2 Adjusting the				
Indicator : Ready for	production				
the working change to	according to the				
deal with agricultural	market needs				
business generally for	3.3 Managing the				
the purpose of additional	balance of the				
value occurring deriving					

Table 10 (Continued)

		Level of evaluation			
Indicator / Criteria	Check List	good	medium	to	IOC
				improve	
from working .	agriculture's				
Criteria : Good –Able	Demand / Supply.				
to create roles on	3.4 Create				
agricultural business in	additional values to				
general and there is an	agricultural				
additional value as well.	production.				
Medium – Create the					
roles in agricultural					
business in the majority					
and increase additional					
value .					
Improve – Create the					
roles in agricultural					
business in majority and					
add some values.					
4.There is skill in	4.1 Build the				0.8
management of	occasion in learning.				
knowledge to support	4.2 Manage the				
agricultures.	learning process for				
Indicator : There is a	farmers .				
knowledge, skill and	4.3 Create a				
building the knowledge	channel of exchange				
managing process for	the learning.				
farmers as well as the	4.4 Create the Best				
learning network and a	Practice from				
channel of changes,	learning				
learning and transferring					

Table 10 (Continued)

			Level of e	evaluation	
Indicator / Criteria	Check List	good	medium	to	IOC
				improve	
the knowledge used for					
successful conduction					
Criteria : Good – Able					
to manage the learning					
on which is able to					
generate learning and					
building the Best					
Practice in working.					
Medium – Able to					
manage the knowledge,					
occurring the learning					
and creating the Best					
Practice in working.					
Improve –Able to					
manage some learning					
on which caused the					
learning appearance and					
finally create some of					
the Best Practice in					
works.					
5.The great issues of	5.1 There is skillful				0.8
scholarship.	hearing in				
Indicator : There is a	analyzing.				
special efficiency in	5.2 There is a skill				
thinking, hearing,	in thinking				
writing and reading and	efficiently.				

Table 10 (Continued)

			Level of e	evaluation	
Indicator / Criteria	Check List	good	medium	to	IOC
				improve	
they are brought to be	5.3 There is a skill				
transferred and adjusted	in conversation and				
for working for the	an exchange of				
purpose of meeting the	knowledge				
success, continually	5.4 There is a skill				
Criteria: Good-Those	of noting working				
scholar matters are used	information.				
for developing works					
and for meeting the					
success.					
Medium – Those scholar					
issues are used to					
develop works.					
Improve – No using					
those scholar issues in					
working.					
6.There is a skill on	6.1 There is a skill				0.8
managing the Team	on building a				
Work.	teamwork.				
Indicator : There is an	6.2 A skill on				
setting up the team and	developing				
developing the team as	teamwork				
well as administrating	6.3 Running				
the team, building and	teamwork to meet				
conducting in teamwork	efficiencies.				
successfully.					

Table 10 (Continued)

	Level of evaluation				
Check List	good	medium	to	IOC	
			improve		
6.4 Administrating					
the activities fully					
at the network to					
support agricultural					
fields.					
7.1 The skill in				1.0	
creating recognition					
to farmers.					
7.2 The skill in					
changing farmers '					
behaviors.					
7.3 The skill in					
transferring					
supports of the					
agricultural issues					
	6.4 Administrating the activities fully at the network to support agricultural fields . 7.1 The skill in creating recognition to farmers . 7.2 The skill in changing farmers 'behaviors . 7.3 The skill in transferring supports of the	6.4 Administrating the activities fully at the network to support agricultural fields. 7.1 The skill in creating recognition to farmers. 7.2 The skill in changing farmers 'behaviors. 7.3 The skill in transferring supports of the	Check List good medium 6.4 Administrating the activities fully at the network to support agricultural fields . 7.1 The skill in creating recognition to farmers . 7.2 The skill in changing farmers 'behaviors . 7.3 The skill in transferring supports of the	Check List good medium to improve 6.4 Administrating the activities fully at the network to support agricultural fields . 7.1 The skill in creating recognition to farmers . 7.2 The skill in changing farmers 'behaviors . 7.3 The skill in transferring supports of the	

Table 10 (Continued)

		Level of evaluation				
Indicator / Criteria	Check List	good	medium	to	IOC	
				improve		
value .						
Medium – Success in						
every level supporting to						
change farmers '						
behaviors.						
8.The skill in	8.1 Communication				0.8	
communication.	in term of the fully					
Indication : There is a	running					
relationship between	conduction.					
farmers and completely	8.2 Create					
supporting of the	cooperation from					
organization in which	the related persons					
causes the meeting of	8.3 Create the					
success.	process related to					
Criteria : Good – There	the conduction.					
is a success of						
communication to be						
recognized by farmers.						
Medium – Able to						
communicate in						
working.						
Improve – There is no						
perfect in connection.						
9.The skill on strategy	9.1 The skill on the				0.6	
planning.	attitude to					
Indicator : There is a	conduction.					
skill in a strategy	9.2 The skill in					

Table 10 (Continued)

			Level of e	evaluation	
Indicator / Criteria	Check List	good	medium	to	IOC
				improve	
planning and bringing	analyzing the				
that strategy to be	SWOT Analysis				
adjusted for using in	9.3 The skill on				
working in order to meet	planning in term of				
the success.	the strategy.				
Criteria : Good –					
Develop the strategy					
planning to meet the					
success.					
Medium –Able to					
develop the strategy					
planning in working.					
Improve – There is no					
developing the strategy					
planning in working.					
10.The skill in solving	10.1 Concentrate on				0.6
the problems of	the farmers'				
farmers.	problems .				
Indicator : The process	10.2 Analyzing the				
in solving the problem is	problem system of				
used systematically and	farmers.				
reducing the problems	10.3 The skill on				
which can be recognized	managing in				
by the farmers.	solving the				
Criteria: Good – There	problems.				
is a process to solve	10.4 The skill on				
problems and farmers	assessment of				

Table 10 (Continued)

		Level of evaluation			
Indicator / Criteria	Check List	good	medium	to	IOC
				improve	
recognized it.	solving the				
Medium – There is a	problems.				
process in solving the					
problems.					
Improve – There is no a					
process solving the					
problems continually.					

Table 11 Analyzing the indicator 's similarity index in each dimension of the KLESS Model Fourth dimension : Competency on skill capable to work Functional Competency

			Level of e	evaluation	
Indicator / Criteria	Check List	good	medium	To	IOC
				improve	
1.The skill in managing	1.1 Planning the				0.8
the exchanging-learning	exchange and				
stage.	learning stage.				
Indicator : Create the	1.2 The skill on				
occasion and a channel in	building a channel				
exchanging the learning for	of exchange -				
those involving including	learning.				
transferring the learning	1.3 The skill in				
stemming from exchanging	conclusion of the				
and learning to become the	knowledge.				
conduction.	1.4 The skill in				

 Table 11 (Continued)

				Level of e	evaluation	
Indicator / Criteria	Check	List	good	medium	To	IOC
					improve	
Criteria: Good – Create	transferring	the				
occasion for exchanging,	knowledge	to				
learning and the knowledge	become the					
occurred systematically .	conduction.					
Medium – Create occasion						
of exchanging and learning						
including the channel of						
exchange the learning						
Improve – There is no						
occasion of exchange and						
learning.						
2.Managing on term of	2.1 Analyzi	ng,				0.8
policy.	planning an	d				
Indicator : Conduct along	managing the	e policy.				
the policy and modifying	2.2 Analyzi	ng or				
the policy to the conduction	synthetize th	he				
in dealing with the	policy proce	ess .				
agricultural land desired to	2.3 Bringing	g the				
meet the targets in	policy to the	e				
accordance with the policy.	conduction					
Criteria : Good – There is a	2.4 Assessi	ng the				
modifying the policy for	result in terr	m of the				
every conduction which is	policy.					
done well.						
Medium – Modifying the						
policy to the conduction .						
Improve – There is no						

Table 11 (Continued)

				Level of o	evaluation	
Indicator / Criteria	Check	List	good	medium	To	IOC
					improve	
modifying the policy to the						
conduction.						
3.The skill in	3.1 Develop	oing the				1.0
communication.	communica	tion				
Indicator : There is an	system 3.2	Using				
building all communication	the commun	nication				
systems to meet the success	process					
in accordance with targets .	3.,3 Develo	ping the				
Criteria : Good – Using all	communica	tion				
communication process to	system					
meet the success of works.	3.4The succ	ess of				
Medium – Able to use the	the commun	nication				
communications.						
Improve – Able to						
communicate, but the work						
does not meet the success.						
4. Working with the	4.1 There is	a good				1.0
community people.	relationship	with the				
Indicator : There is a skill	community					
in entering the region,	4.2 The con	nmunity				
working together with the	provided					
community and the people	cooperation	1.				
in the community recognize	4.3 There i	s a result				
the success of works with	of working	with the				
the real cooperation.	community					
Criteria : Good – Working						
with the community people						

 Table 11 (Continued)

				Level of	evaluation	
Indicator / Criteria	Check	List	good	medium	To	IOC
					improve	
and the people gave the						
communication.						
Medium – Working with the						
community and the						
community people provided						
some cooperation.						
Improve – Working with the	2					
community and the people						
of the community do not						
provide cooperation.						
5.The skill on the	5.1 Give a go	ood				0.8
facilitator of farmers.	advice to far	mers .				
Indicator : There is ability	5.2 There is					
in advising and working	confident in fa	armers .				
with farmers closely both in	5.3 Becomin	ng a				
the time of suffering and	good consult	tant .				
happiness.						
Criteria : Good –						
Becoming the facilitator						
who has lived with farmers						
all the time.						
Medium – Becoming the						
facilitator who lived with						
farmers for some time .,						
Improve – There is no						
facilitator to live with						
farmers all the time.						

Table 11 (Continued)

			Level of evaluation			
Indicator / Criteria	Check	List	good	medium	To	IOC
					improve	
6.Resources of local	6.1 There is	an				0.8
wisdom.	understandi	ng the				
Indicator : There is a	local wisdo	m.				
knowledge, capability and	6.2 There is					
efficiency in adjusting the	developing	the local				
local wisdoms in each areas	wisdom.					
for supporting to meet the	6.3 There is	an				
success.	applying the	e local				
Criteria: Good – Ability	wisdom.					
and efficiency in adjusting	6.4 There is	a result				
the local wisdom for use in	of using the	local				
areas and meeting the	wisdom.					
success.						
Medium – The ability and						
efficiency to adjust the local						
wisdom to be used in the						
areas and meet the success.						

Table 12 Analyzing the indicator 's similarity index in each dimension of the KLESS Model Fifth dimension : Competency for smart Core Competency

Indicator / Criteria	Check List		Level of e	evaluation	
		good	medium	To	IOC
				improve	
1. Characteristic	1.1 Ability in				0.6
Indicator : There is a good	setting up oneself.				
characteristic, which is	1.2 Good dressing.				
special manner, to be able	1.3 Good looking.				
to create the trusty and faith	1.4 Farmers have				
for farmers.	belief and have a				
Criteria : Good – There is a	faith.				
good favorable and trusty					
character for farmers .					
Medium – There is a					
favorable characteristic.					
Improve – There is an					
unfavorable character and					
trust for farmers.					
2.Good behaviors.	2.1 Becoming a				0.6
Indicator : Practicing	good example to				
oneself is a good example	farmers .				
by using some Dhamma in	2.2 There is a good				
working together with	behavior.				
others and there is	2.3 There is a				
discipline, sacrifice,	discipline in				
patience, moral and ethics	working				
in working with farmers .	2.4 There is moral				
Criteria : Good –	and ethics.				
Becoming an example for					
using Dhamma on oneself					

Table 12 (Continued)

ethics.

Indicator / Criteria	Check List		Level of	evaluation	
		good	medium	To	IOC
				improve	
behaviors, sacrifice,					
patience, moral and ethics					
in working.					
Medium – Becoming a good	d				
sample to observe the					
discipline, sacrifice and					
patience.					
Improve – Becoming an					
example of less using the					
four Brahmavihara, the					
four Iddhipada, moral and					
ethics in working.					
3. Support morals .	3.1 There is a				0.6
Indicator : Becoming the	favorable moral				
strong supporter on using	quality .				
moral and ethics and	3.2 Creating				
goodness in working with	3.3 thinking for				
farmers.	farmers to do good.				
Criteria : Good -	3.4 There is moral				
Becoming a good supporter	to support farmers .				
of moral and ethics.					
Medium – Able to become a	a				
supporter on moral and					
ethics.					
Improve – No becoming a					
supporter on moral and					

 Table 12 (Continued)

Indicator / Criteria	Check List		Level of evaluation		
		good	medium	To	IOC
				improve	
4.Soul in working.	4.1 There is an ideal				1.0
Indicator : There is an	and intention.				
intention, concentration	4.2 Paying				
with soul in working to let	intension and				
work meet the success.	sacrifice.				
There is no retreating	4.3 Supporting				
because of obstacles, seeing	g farmers to become				
the success of works and	important persons.				
their results for farmers as	4.4 There is result				
the important target	of works to become				
Criteria : Good – There is	interests for farmers				
high soul in working.					
Medium – There is a					
medium soul in working.					
Improve – there is less soul					
in working .					
5. Scholar	5.1 There is scholar				
Indicator : There is a	in majority works.				
scholar in every dimension	5.2 Knowing about				
working, able to bring the	the society				
scholar in working to meet	5.3 Knowing the				
the success and occurring	community of the				
results of the Best Practice.	people.				
Criteria : Good – There is	5.4 Knowing the				
scholar in each dimension	society.				
of working and working to					
meet the success of the Best					

Table 12 (Continued)

Indicator / Criteria	Check List		Level of	evaluation	
		good	medium	To	IOC
				improve	
Practice					
Medium - There is a					
scholar in every dimension					
of working and working to					
meet the success.					
Improve –There is no					
scholar in every dimension					
of working and not able to					
work for the success.					
1.Creating faith to others	1.1 Building				0.6
Indicator : Building a good	understanding to				
attitude, trust and faith for	farmers				
developing works and	1.2 Building				
changing behaviors of	recognition for				
farmers.	farmers.				
Criteria : Good – Building	1.3 There is a good				
a good faith for farmers,	attitude to farmers .				
workers, profession and	1.4 Build a good				
concerned officials.	behavior in work				
Medium – Able to build	supporting the				
faith for farmers, workers,	agricultural.				
profession and concerned					
officials.					
Improve – There is no able					
to build faith for farmers,					
workers, profession and					
concerned officials					

Table 12 (Continued)

Indicator / Criteria	Check List		Level of	evaluation	
		good	medium	To	IOC
				improve	
2. Advancing work	2.1 Planning				0.6
Indicator : Having a	working in				
knowledge and	advance.				
understanding, ability in	2.2 Using				
advancing working, ability	information in				
in transferring knowledge	working.				
and ready to work for	2.3 Using a crisis to				
meeting the success.	become a good				
Criteria: Good – Able to	chance to support				
work seen by farmers.	the agricultural.				
Medium : There is able to	2.4 Giving				
work.	advancing				
Improve – There is no	information to				
capable to work.	farmers.				
3. There is an ideal of	3.1 There is a soul				1.0
supporting.	supporting the				
Indicator : There is oneself	agricultural.				
ideal, intension and	3.2 There is ideal				
conduction to support	to work for the				
according oneself ideal to	agricultural.				
meet the success.	3.3 Paying				
Criteria: Good –There is a	intension to support				
success stemming from the	the work qualities				
good ideal .	for the agricultural				
Medium –There is intention					
of working.					
Improve – There is not a					

Table 12 (Continued)

Indicator / Criteria	Check List		Level of	evaluation	
		good	medium	To	IOC
				improve	
success stemming from					
ideal to become the					
supporter of the agricultural					
4. There is interest and is	4.1 Interesting				0.8
seeking more knowledge.	changes of the				
Indicator : There is a desire	e community.				
to hear, speaking, thinking	4.2 Following the				
, writing and remembering .	social important				
Use the scholar important	movement.				
issues to work completely.	4.3 Developing				
Criteria : Good – There is	oneself continually				
good scholar important	4.4 Build the				
issues to work.	learning				
Medium – Use those scholar	r organization and				
important issues to work.	supporting the				
Improve – No using the	agricultural.				
scholar important issues to					
work .					

Formula IOC =
$$\frac{\sum R}{N}$$

R = base of specialists.

N = the number of specialists Suitable IOC is 0.5 up.

To construct the Agricultural Extensionists' Development Curriculum

The curriculum development 3 Process Design

- 1. The curriculum Factor Analysis with 5 Module
- 2. The training curriculum structure each module follows:
 - 2.1 Name of the module
 - 2.2 Module objective
 - 2.3 Module Scope
 - 2.4 Learning Activity
 - 2.5 Measurement Activity
- 3. The curriculum evaluation with indext of congruence analysis by 12 expertise: IOC Level> 0.6-1.00 for all Perspectives.

The Document of Agricultural Extensionists' Development Curriculum

The researcher to development the document of curriculum training for development Agricultural Extensionists' characteristic by classify 5 Module follow

Module 1: To development Knowledge Competency of Agri-Ext

Module 2: To development Leadership Competency of Agri-Ext

Module 3: To development Emotional Competency of Ag-Ext

Module 4: To development Working Skill Competency of Agri-Ext

Module 5: To development Smartness Competency of Agri-Ext

The training curriculum structure

Module 1: The management and Agricultural Extension knowledge

Scope of Subject

- 1. Knowledge Management and Policy Deployment
- 2. The Agricultural Extension and Agricultural Business context
- 3. Thinking knowledge and working psychology

Module 2: The Leadership and Networking Management

Scope of Subject

- 1. The Leadership and Organization Development
- 2. The Problem solving and proactive working
- 3. Network Management and working Merit

Module 3: The EQ and Human Relationship

Scope of Subject

- 1. The Emotion maturity and working mind
- 2. The Creative thinking and self confidence
- 3. Human relationship and the Network relation

Module 4: The Communication Skill and The Agri-Extension Management

Scope of Subject

- 1. The Agri-Extension knowledge management
- 2. The Problem solving and Team working skill
- 3. The Communication and coordinative skill

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Module 5: The Personality and Spiritual of Agri-Extensionists'

Scope of Subject

- 1. The Personality of Agricultural Extensionists'
- 2. The Spiritual and Ethics
- 3. The discipline and Self divested learning skill

The Learning Activity

- 1. The Academic Lecture
- 2. Group Process
- 3. Case Studies
- 4. Mini-Walk Rally
- 5. Learning Presentation

The Evaluation Activity

- 1. Learning Participation
- 2. Case Studies Presentation
- 3. Learning Achievement

The Measurement Method

- 1. Training Registration
- 2. Case Studies Evaluation
- 3. The Participation Observation
- 4. The Learning Interview
- 5. The Past-Training Evaluation
- 6. The Leadership checklist
- 7. The Competency KPI

 Table 13 IOC of Curriculum

1= suitable 0= not-sure -1=un suitable

step	element	IOC
1	Curriculum Name	0.80
2	Curriculum Philosophy	0.60
3	Curriculum Objective	1.00
4	Module1 (K)	0.80
5	Module2 (L)	0.80
6	Module3 (EQ)	0.60
7	Module4 (S)	0.80
8	Module5 (Sm)	0.80
9	Subject Detail	
	9.1.1 Knowledge in thinking and soul in work	0.80
	9.1.2 Agri-Ext and Agri-Bussiness	0.80
	9.1.3 KM and Policy management	0.60
	9.2.1 Leadership and organization capacity development	1.00
	9.2.2 Systematic of problem solving	1.00
	9.2.3 Networking management	1.00
	9.3.1 EQ	1.00
	9.3.2 Creative thinking and self confident	0.80
	9.3.3 Relationship with networking	0.60
	9.4.1Ad-ext Communication	0.80
	9.4.2 Team work	0.60
	9.4.3 Ad-ext KM	0.60
	9.5.1 Ad-ext Personality	0.80
	9.5.2 Ad-ext soul and merit	0.80
	9.5.3 Moral in work	0.80

Phase II Developing Agricultural Extensionists' by training

Training Evaluation Agricultural Extensionists' Developing Curriculum

Course Training Evaluation

The research training with Agri-Ext in Samutproknan Province 31 persons timing 4 day 40 hours and networking who working with Agri-Ext 100 persons and evaluation in topics are as follows:

- 1. The learning Evaluation
- 2. The Past Training Evaluation
- 3. The Leadership Evaluation
- 4. The Agri-Ext Personality Evaluation
- 5. The farmers Satisfaction Evaluation
- 6. The Competency level Evaluation as follows

 Table 14
 The Learning Evaluation

Evaluation	Understand	Non- Understand
	%	%
1. Course Objective understanding	96.7	3.3
2. Learning Activity understanding	96.7	3.3
3. Learning Participation	100	-
4. Role and Function understanding	96.7	3.3
5. Learning Process understanding	90	10
6. Subject Learning Process understanding	93.3	6.7

From table we can mention that the Agri-Ext who passed the course can be understanding in learning participation 100% and understanding course objective, learning activity ,role and function 96.7% and the last subject learning process and learning process 90%.

Table 15 The Past training (1 month) Evaluation

Evaluation aspect	Level of Evaluation				
-	Good	Medium	To be	Average	
			improved		
1. Working System understanding	24	7	-	2.77	
2. Knowledge Implementation	24	7	-	2.77	
3. System working Planning	11	9	0	1.64	
4. Pre-Briefing of working	16	15	0	2.51	
5. Out – come Evaluation process	21	10	0	2.67	
6. Stakeholder working presentation	15	16	0	2.48	
7. Systematic Thinking for work	16	15	0	2.51	
8. Problem solving skill	21	10	0	2.67	
9. Working knowledge Satisfy	22	9	0	2.7	
10. Working outcome Appreciate	24	7	0	2.77	

Criteria 1.00-1.50 = To be improved

1.51-2.50 = Medium

2.51-3.00 = Good

From table we can mention the Ag-Ext who passed the course good level all topics accept in system working planing are medium.

 Table 16
 The Leadership Evaluation

Evaluation aspect		Level of	Evaluation	
_	Good	Medium	To be	Average
1. Working Leader	20	11	0	2.64
2. Working Vision	21	10	0	2.67
3. New thinking process of Working	16	15	0	2.51
4. Farmer Network Leading	23	8	0	2.74
5. Problem solving Ready	22	9	0	2.7
6. Agri- Extension Leader	21	10	0	2.67
7. Working Problem Adversity	23	8	0	2.74
8. Farmers Persuasive Skill	22	9	0	2.7
9. Organization Development Leader	20	11	0	2.64
10. Leading Satisfy	21	10	0	2.67

From table we can mention that the Ag-Ext who passed the training good level for all perspectives.

 Table 17
 The Agri-Ext Personality

Evaluation aspect	Level of Evaluation				
	Good	Medium	To be	Average	
			improved		
1. Good Health (Body &	29	3	0	3.00	
Mind)					
2. Good EQ	26	5	0	2.83	
3. Cool of calm mind	23	8	0	2.74	
4. Human Relationship	26	5	0	2.84	
5. Good Attitude to the	24	7	0	2.90	
farmers					
6. Social skill Personality	28	3	0	2.77	
7. Good Attitude to the	25	6	0	2.80	
function					
8. Good Mind for the farmers	27	4	0	2.87	
9. Good Communication to	26	5	0	2.83	
the Farmers					
10. Self Satisfy for the	24	7	0	2.77	
personality					

From table we can mention that the Ag-Ext who passed the training good level for all perspectives.

 Table 18 The Farmer Satisfaction Evaluation

(N = 100)

Evaluation aspect	Level of Evaluation					
_	Good	Medium	To be	Average		
			improved			
1. Agri- Ext Personality	95	5	0	2.95		
2. Agri- Ext Thinking System	90	10	0	2.9		
3. Agri- Ext Ability	92	8	0	2.92		
4. Agri- Ext Skill	98	2	0	2.98		
5. Agri- Ext Leadership	88	12	0	2.88		
6. Agri- Ext Problem solving	95	5	0	2.95		
7. Agri- Ext Attention	95	5	0	2.95		
8. Agri- Ext Counseling	100	0	0	3		
9. Agri- Ext Emotional	100	0	0	3		
10. Agri- Ext Smartness and Clever	92	8	0	2.92		

From table we can mention that the farmer who working with the Ag-Ext had Satisfy in good level all perspectives.

Conclusion after the Agri- Ext passed training course they can improved or change behavior to be good with KLESS competency model as follow: Knowledge Leadership Emotional Skill and Smartness in good level evaluation.

The result of Agri-Ext characteristic KPI each dimension

1. Evaluation dimension

- 1.1 K competency Core-Functional
- 1.2 L Leadership Core-Functional
- 1.3 E EQ Core-Functional
- 1.4 S Skill Core-Functional
- 1.5 S Smart Core-Functional

2. Element of evaluation System

- 2.1 KPI
- 2.2 3 Level of evaluation
 - 2.2.1 Good
 - 2.2.2 Medium
 - 2.2.3 to improve

Table 19 KPI in each dimensions of the KLESS Competency Model First dimension : knowledge competency Core Competency

			Level of	evaluation	n
KPI	criteria	good	medium	To	average
				improve	
1.Understanding	1. Have a vision.	29	0	2	2.87
in producing the	2. Have a clear practical	26	0	5	2.68
strategic schemes.	measure.				
	3. Able to practice	26	0	5	2.68
	really				
2.Knowledge in	2.1 Complete matters in	0	17	14	1.55
high thinking.	10 thinking dimensions.				
	2.2 Clearness in	0	22	9	1.71
	explanation .				
	2.3 Able to generate in	26	0	5	2.68
	accordance with the				
	thinking system in				
	reality				
3.Understanding	3.1 Complete matters	0	21	10	1.68
the truly	are produced in every				
agricultural	dimensions.				
meaning	3.2 Clearness of all	0	19	12	1.61
	matters is produced in				
	every dimensions.				
4. Understanding	4.1 Generally involved	30	0	1	2.94
on the	situations.				
administration	4.2 The fact point /	28	0	3	2.81
policy to support	problems.				
the agricultural	4.3 Solving /tendency	27	0	4	2.74
issues .	4.4 Proposal .	28	0	3	2.81
	4.5 Academic subjects	30	0	1	2.94

Table 19 (Continued)

			on		
KPI	criteria	good	medium	To	average
				improve	e
5.Knowlege on	5.1 Analyzing the fact.	29	0	2	2.87
agricultural	5.2 Analyzing the	29	0	2	2.87
business issue.	problem.				
	5.3 Using the academic	0	19	12	1.61
	issue to become the				
	reference.				
	5.4 Producing the	0	22	9	1.71
	conclusion.				
	5.5 Proposals.	26	0	5	2.68
6.Understanding	6.1 Component of the	29	0	2	2.87
on teamwork	team.				
meaning.	6.2 Building the team	29	0	2	2.87
	managing system.				
	6.3 Developing the	27	4	0	2.87
	team.				
	6.4 Prolonging the	0	21	10	1.68
	team.				
7.Understanding	7.1 The characteristic	29	0	2	2.87
the psychology	of the target persons.				
system.	7.2 Analyzing the data.	30	0	1	2.94
	7.3 Adjusting the	28	3	0	2.90
	psychology system for				
	working.				
	7.4 Using a special	31	0	0	3.00
	technique to focus on				
	psychology.				

Table 19 (Continued)

			Level of	evaluatio	n
KPI	criteria	good	medium	To	average
				improve	
8.Knowing works	8.1 System.	31	0	0	3.00
to support the	8.2 Technique.	29	0	2	2.87
agricultural fields	8.3 Management and	28	0	3	2.81
	administration				
	8.4 Clear explanation.	27	0	4	2.74
	8.5 Assessment.	27	0	4	2.74
1.Understanding	1.1 Understanding the	29	0	2	2.87
the social	social issue.				
important issue.	1.2 Synthetizing or	26	0	5	2.68
	analyzing the social				
	problems.				
	1.3 The social	29	0	2	2.87
	behaviors.				
2.Having a	2.1 There is an	30	0	1	2.94
knowledge about	understanding of the				
the policy	policy.				
management.	2.2 There is a	29	0	2	2.87
	conduction on the				
	policy				
	2.3 Administration and	26	0	5	2.68
	changes according to				
	the policy.				
3.Knowledge for	3.1 Understanding the	31	0	0	3.00
providing	farmer problems.				
consults and	3.2 Analyzing the	31	0	0	3.00
advices to others.	farmer problems.				

Table 19 (Continued)

			Level of	evaluation	1
KPI	criteria	good	medium	To	average
				improve	
	3.3 Knowing on how to	29	0	2	2.87
	solve the farmer				
	problems.				
4.Understanding	4.1 Understanding the	29	0	2	2.87
the local wisdom	farmer's significant				
of villagers.	knowledge.				
	4.2 Transferring the	0	24	7	1.77
	new knowledge.				
	4.3 Applying the local	25	0	6	2.61
	wisdom.				
5.Understanding	5.1 Communication	30	0	1	2.94
the measures used	5.2 the central	28	0	3	2.81
for	communication.				
communication	5.3 Producing	28	0	3	2.81
with others	essences.				
	5.4 Knowing the	28	0	3	2.81
	communication 's way.				
	5.5 Knowing the	26	0	5	2.68
	results of the				
	communication.				
6.Understanding	6.1 Understanding of	31	0	0	3.00
the management	the knowledge				
system of	managing.				
knowledge	6.2 Building a learning	31	0	0	3.00
supporting	stage				
agricultural	6.3 Developing the	29	0	2	2.87
issues.	learning system.				

Table 19 (Continued)

			n		
KPI	criteria	good	medium	To	average
				improve	:
	6.4 Building the best practice.	0	22	9	1.71

In the dimension of KNOWLEDGE for Agricultural Extortionists' is in the good level in core competency accept Knowledge in high thinking. And agri-bus in functional competency in the good level accept local wisdom and KM

 Table 20
 KPI in each dimensions of the KLESS Competency Model

 Second dimension : the leader competency Core Competency

		Level of evaluation				
KPI	criteria	good	medium	To	average	
				improve		
1.Leadership	1.1 Have a vision.	29	0	2	2.87	
	1.2Dare to think /	29	0	2	2.87	
	conduct.	30	0	1	2.94	
	1.3Dare to lead the					
	changes.	31	0	0	3.00	
	1.4To meet the					
	success and bring the					
	persons, who					
	conducted on the					
	measure to meet their					
	happiness.					

Table 20 (Continued)

			Level of evaluation		
KPI	criteria	good	medium	To	average
				improve	
2. Readiness for	2.1 There is a new	25	0	6	2.61
conducting the	thinking system.				
challenging	2.2 Concentrating on	0	23	8	1.74
works.	the new working				
	system.				
	2.3 Developing the	23	0	8	2.48
	good working				
	behaviors.				
	2.4 Building a new	25	0	6	2.61
	working system.				
3.Leadership in	3.1 Bring analyzing	29	0	2	2.87
solving the	the agricultural				
agricultural	problem 's results to				
problems.	be considered				
	carefully.				
	3.2 Take the limited	31	0	0	3.00
	causes of the problem				
	to be considered				
	carefully.				
	3.3 Take the	31	0	0	3.00
	understanding of				
	agricultural problems				
	to be considered				
	carefully.				
	3.4 Help release the	29	0	2	2.87
	farmer's suffering				
	problems.				

Table 20 (Continued)

			Level of	evaluation	<u> </u>	
KPI	criteria	good	medium	To	average	
				improve		
4.Leadership of	4.1 Producing the	29	0	2	2.87	
developing the	clear working plan is a					
team working	system					
system.	4.2 Limiting the	26	0	5	2.68	
	working process					
	4.3 Transferring the	0	22	9	1.71	
	working system					
5.Becoming the	5.1 There is a system	0	24	7	1.77	
team leadership.	to build a teamwork.					
	5.2There is a working	25	0	6	2.61	
	in team.					
	5.3There is a network	0	19	12	1.61	
	for the team.					
6.The working	6.1 There is a creative	26	0	5	2.68	
vision.	thinking.					
	6.2 Build a new thing	26	0	5	2.68	
	for working.					
	6.3 There is a thinking	0	19	12	1.61	
	system in working.					
	6.4 There is a	0	22	9	1.71	
	transferring of the					
	vision					
7.Relationship.	7.1There is a good	26	0	5	2.68	
	conduction with					
	farmers					
	7.2 He or she is	25	0	6	2.61	
	favorable for farmers.					

Table 20 (Continued)

			Level of ev	valuatio	n
KPI	criteria	good	medium	To	average
				improv	e
	7.3 He or she is the	27	0	4	2.74
	faith of farmers.				
	7.4 There is a	30	0	1	2.94
	communication				
	outside				
	7.5 There is a success	25	0	6	2.61
	on communication.				
8.To become the	8.1 There is a thinking	27	0	4	2.74
leader in thinking.	measure to support the				
	agriculture.				
	8.2 There is an	30	1	0	2.97
	exchange of learning				
	with farmers.				
	8.3 To install the Best	0	23	8	1.74
	Practice with the				
	network.				
9.To become the	9.1 Build a new form	23	0	8	2.48
leader in	for developing				
developing	oneself.				
personals, worker	9.2 There is a learning	26	0	5	2.68
, job and	method to develop the				
organization.	personals.				
	9.3 Build a process to	0	22	9	1.71
	develop jobs and				
	organization.				

Table 20 (Continued)

			Level of	evaluation	
KPI	criteria	good	medium	To	average
				improve	
	9.4 There is a success	0	22	9	1.71
	from leading in				
	development.				
1.Bring learning	1.1 Set-up a learning	29	0	2	2.87
to farmers.	exchange stage.				
	1.2 Build an	28	0	3	2.81
	atmosphere for				
	learning.				
	1.3 Expansion of a	25	0	6	2.61
	learning result.				
	1.4 Build a learning	0	24	7	1.77
	network.				
	1.5 Building the Best	0	22	9	1.71
	Practice for a learning.				
2.Moral and	2.1Sympathize and	31	0	0	3.00
ethics.	understand other				
	persons.				
	2.2 Becoming equal	31	0	0	3.00
	and justice to every				
	person.				
	2.3 There is an	30	0	1	2.94
	believable and trusty				
	manner.				
3.Devote and	3.1 Devote the body	31	0	0	3.00
sacrifice oneself	ability for agriculture.				
for agriculture.	3.2 Work outside the	29	0	2	2.87
	official time.				

Table 20 (Continued)

		Level of evaluation			
KPI	criteria	good	medium	To	average
				improve	
	3.3 Offer personal	30	0	1	2.94
	property.				
	3.4 Try to work at	30	0	1	2.94
	most for good general				
	results of every				
	persons.				
4.Leading in	4.1 Begin in relation.	31	0	0	3.00
communication.	4.2 There is working	31	0	0	3.00
	together with others.				
	4.3 There is a success	0	22	9	1.71
	in working together				
	with other persons.				
	4.4 There is a	26	0	5	2.68
	network linking to				
	other persons.				
5. Ability in	5.1 There is an	29	0	2	2.87
persuading others	experience of				
'minds.	speaking.				
	5.2 Changing the	0	18	13	1.58
	farmer behaviors.				
	5.3 There is a success	0	22	9	1.71
	of persuading				
	5.4 There is a	29	0	2	2.87
	cooperation with				
	farmers				

Table 20 (Continued)

		Level of evaluation			
KPI	criteria	good	medium	To	average
				improve	•
6.To become	6.1 Setting up the	31	0	0	3.00
oneself as an	suitable oneself.				
example for	6.2 Advising in	31	0	0	3.00
farmers.	working for farmers				
	6.3 Changing the	28	0	3	2.81
	farmers' behaviors .				
	6.4 Establish the	27	0	4	2.74
	good example farmer				
	network.				
7. Becoming a	7.1 Practice in	30	0	1	2.94
discipline person.	accordance with the				
	rules				
	7.2 Build the	29	0	2	2.87
	disciplines in a				
	teamwork.				
	7.3 To become an	24	0	7	2.55
	example of observing				
	the discipline in				
	teamwork.				
	7.4 He or she has ever	29	0	2	2.87
	been investigated				
	about their discipline.				
8. Transferring	8.1 Understand the	30	0	1	2.94
the knowledge.	transferring 's				
	measure.				

Table 20 (Continued)

		Level of evaluation			
KPI	criteria	good	medium	To	average
				improv	e
	8.2 There is an experience	27	0	4	2.74
	in transferring the				
	knowledge .				
	8.3 There is an art in	25	0	6	2.61
	transferring the				
	knowledge.				
	8.4 The success	26	0	5	2.68
	occurred to farmers.				

In Leadership the Agricultural Extensionists' good level accept to built new innovation, and teamwork systematic of thinking and best practice

Table 21 KPI in each dimensions of the KLESS Competency Model

Third dimension: Competency of EQ Core Competency

		Level of evaluation			
KPI	criteria	good	medium	To	average
				improve	
1.Emotional	1.1 Understanding	30	0	1	2.94
qualification.	oneself and others.				
	1.2 Controlling	30	0	1	2.94
	oneself 's emotion.				
	1.3 There is a good	30	0	1	2.94
	attitude to oneself.				
	1.4 There is a good	31	0	0	3.00
	attitude to farmers.				

Table 21 (Continued)

			evaluatio	n	
KPI	criteria	good	medium	To	average
				improve	9
2.Carefulness and	2.1 There is an	30	0	1	2.94
patience.	addition of attraction				
	for farmers.				
	2.2 See values of	31	0	0	3.00
	farmers				
	2.3 There is an	27	0	4	2.74
	creating morale for				
	farmers .				
	2.4 Being a careful	30	0	1	2.94
	person .				
	2.5 Being a calm	31	0	0	3.00
	person				
3. Positive	3.1 There is a creative	30	0	1	2.94
thinking.	thinking to support				
	farmers.				
	3.2 Becoming an	30	0	1	2.94
	optimism person.				
	3.3 Build a new thing	21	0	10	2.35
	in working.				
4.Using the moral	4.1 Provide justice	31	0	0	3.00
issue leading	and equality.				
oneself.	4.2 Work with	31	0	0	3.00
	transparency.				
	4.3 There is a morale	31	0	0	3.00
	issue leading oneself.				

 Table 21 (Continued)

			Level of evaluation			
KPI	criteria	good	medium	To	average	
				improve		
	4.4 Using the moral	31	0	0	3.00	
	system in working.					
5.Consciousness	5.1 Conduct benefits	31	0	0	3.00	
in working.	for the majority.					
	5.2 Sacrifice oneself	30	0	1	2.94	
	for works.					
	5.3 Concentrate on the	30	0	1	2.94	
	success of works					
	5.4 Have a real	31	0	0	3.00	
	intention to become					
	responsible for works.					
6.Self confidence.	6.1 There is an	28	0	3	2.81	
	understanding in					
	works.					
	6.2 There is a system	30	0	1	2.94	
	in working.					
	6.3 Polite and	31	0	0	3.00	
	become gentle to					
	farmers.					
	6.4 Self confidence.	29	0	2	2.87	
1. Mindfulness	1.1 .There is	29	0	2	2.87	
controls oneself.	mindfulness in					
	speaking.					
	1.2 There is	26	0	5	2.68	
	mindfulness in					
	proposing the works.					

 Table 21 (Continued)

		evaluatio	on	
criteria	good	medium	To	average
			improve	•
1.3 Dare to do what is	31	0	0	3.00
right.				
1.4 Refuse what is	29	0	2	2.87
wrong				
1.5 There is	31	0	0	3.00
mindfulness on				
oneself in continuing				
life.				
2.1 Respecting an	31	0	0	3.00
honor in oneself.				
2.2 Give an honor to	31	0	0	3.00
others .				
2.3 Respect ranks of	31	0	0	3.00
others .				
2.4 Keep on oneself	31	0	0	3.00
honor and others.				
3.1 There is a giving.	31	0	0	3.00
3.2 Becoming a good	31	0	0	3.00
mind.				
3.3 Becoming a mercy	31	0	0	3.00
to others.				
3.4 Help for farmers.	31	0	0	3.00
4.1 Becoming a good	30	0	1	2.94
emotion.				
4.2 Becoming the	25	0	6	2.61
comedy emotion.				
	1.3 Dare to do what is right. 1.4 Refuse what is wrong 1.5 There is mindfulness on oneself in continuing life. 2.1 Respecting an honor in oneself. 2.2 Give an honor to others. 2.3 Respect ranks of others. 2.4 Keep on oneself honor and others. 3.1 There is a giving. 3.2 Becoming a good mind. 3.3 Becoming a mercy to others. 3.4 Help for farmers. 4.1 Becoming a good emotion. 4.2 Becoming the	1.3 Dare to do what is right. 1.4 Refuse what is 29 wrong 1.5 There is 31 mindfulness on oneself in continuing life. 2.1 Respecting an 31 honor in oneself. 2.2 Give an honor to 31 others. 2.3 Respect ranks of 31 others. 2.4 Keep on oneself 31 honor and others. 3.1 There is a giving. 31 3.2 Becoming a good mind. 3.3 Becoming a mercy 31 to others. 3.4 Help for farmers. 31 4.1 Becoming a good emotion. 4.2 Becoming the 25	right. 1.4 Refuse what is 29 0 wrong 1.5 There is 31 0 mindfulness on oneself in continuing life . 2.1 Respecting an honor to others . 2.3 Respect ranks of others . 2.4 Keep on oneself 31 0 others . 2.4 Keep on oneself 31 0 mind. 3.2 Becoming a good 31 0 mind. 3.3 Becoming a mercy to others. 3.4 Help for farmers. 4.1 Becoming a good omotion. 4.2 Becoming the 25 0	Improved I.3 Dare to do what is 31 0 0 0 0 0 0 0 0 0

Table 21 (Continued)

		Level of evaluation			
KPI	criteria	good	medium	To	average
				improve	
	4.3 Able to manage	28	0	3	2.81
	on oneself emotion.				
	4.4 Ready to work in	28	0	3	2.81
	pressuring situation				

From the table we can mention that in EQ characteristic the Agri-Ext in good level all perspective.

Table 22 KPI in each dimensions of the KLESS Competency Model

Fourth dimension : Competency on skill capable to work Core

Competency

		Level of evaluation			
KPI	criteria	good	medium	To	average
				improve	
1. There is high	1.1 Thinking in the	24	0	7	2.55
thinking skill.	viewing process				
	1.2 Thinking on a	0	14	17	1.45
	new system.				
	1.3 Producing a	0	17	14	1.55
	thinking system in				
	solving the problem.				
	1.4 There is an	0	22	9	1.71
	analyzing thought.				

Table 22 (Continued)

			Level of	Level of evaluation		
KPI	criteria	good	medium	To	average	
				improve		
2.Skill is used on	2.1 Understanding the	30	0	1	2.94	
the agricultural	agricultural system.					
system.	2.2 Knowing the	27	0	4	2.74	
	agricultural systems.					
	2.3 Applying the	27	0	4	2.74	
	agricultural system for					
	farmers .					
3. There is a skill	3.1 Know agricultural	0	20	11	1.65	
in management of	market systems .					
agricultural	3.2 Adjusting the	0	20	11	1.65	
business	production according					
	to the market needs					
	3.3 Managing the	0	20	11	1.65	
	balance of the					
	agriculture's Demand					
	/ Supply.					
	3.4 Create additional	25	0	6	2.61	
	values to agricultural					
	production.					
4.There is skill in	4.1 Build the occasion	0	21	10	1.68	
management of	in learning.					
knowledge to	4.2 Manage the	29	0	2	2.87	
support	learning process for					
agricultures.	farmers .					
	4.3 Create a channel	0	23	8	1.74	
	of exchange the					
	learning.					
	icallilly.					

Table 22 (Continued)

			Level of e	valuatio	n
KPI	criteria	good	medium	To	average
				improv	e
	4.4 Create the Best	0	22	9	1.71
	Practice from				
	learning.				
5.The great issues	5.1 There is skillful	0	22	9	1.71
of scholarship.	hearing in analyzing.				
	5.2 There is a skill in	0	10	21	1.32
	thinking efficiently.				
	5.3 There is a skill in	0	15	16	1.48
	conversation and an				
	exchange of				
	knowledge.				
	5.4 There is a skill of	0	19	12	1.61
	noting working				
	information.				
6.There is a skill	6.1 There is a skill on	31	0	0	3.00
on managing the	building a teamwork.				
Team Work.	6.2 A skill on				
	developing teamwork	27	0	4	2.74
	6.3 Running				
	teamwork to meet	25	0	6	2.61
	efficiencies.				
	6.4 Administrating the				
	activities fully at the	0	20	11	1.65
	network to support				
	agricultural fields.				

Table 22 (Continued)

		n		
criteria	good	medium	To	average
			improve	e
7.1 The skill in	29	0	2	2.87
creating recognition to				
farmers				
7.2 The skill in	25	0	6	2.61
changing farmers '				
behaviors.				
7.3 The skill in	0	24	7	1.77
transferring supports				
of the agricultural				
issues.				
8.1 Communication in	29	0	2	2.87
term of the fully				
running conduction.				
8.2 Create	30	0	1	2.94
cooperation from the				
related persons.				
8.3 Create the	27	0	4	2.74
process related to the				
conduction.				
9.1 The skill on the	28	0	3	2.81
attitude to conduction.				
9.2 The skill in	28	0	3	2.81
analyzing the SWOT				
Analysis.				
9.3 The skill on	0	23	8	1.74
planning in term of				
the strategy.				
	7.1 The skill in creating recognition to farmers 7.2 The skill in changing farmers 'behaviors. 7.3 The skill in transferring supports of the agricultural issues. 8.1 Communication in term of the fully running conduction. 8.2 Create cooperation from the related persons. 8.3 Create the process related to the conduction. 9.1 The skill on the attitude to conduction. 9.2 The skill in analyzing the SWOT Analysis. 9.3 The skill on planning in term of	7.1 The skill in creating recognition to farmers 7.2 The skill in changing farmers ' behaviors. 7.3 The skill in transferring supports of the agricultural issues. 8.1 Communication in term of the fully running conduction. 8.2 Create cooperation from the related persons. 8.3 Create the process related to the conduction. 9.1 The skill on the attitude to conduction. 9.2 The skill in analyzing the SWOT Analysis. 9.3 The skill on planning in term of	7.1 The skill in 29 0 creating recognition to farmers 7.2 The skill in 25 0 changing farmers 'behaviors. 7.3 The skill in 0 24 transferring supports of the agricultural issues. 8.1 Communication in 29 0 term of the fully running conduction. 8.2 Create 30 0 cooperation from the related persons. 8.3 Create the 27 0 process related to the conduction. 9.1 The skill on the attitude to conduction. 9.2 The skill in 28 0 analyzing the SWOT Analysis. 9.3 The skill on 0 23 planning in term of	7.1 The skill in 29 0 2 creating recognition to farmers 7.2 The skill in 25 0 6 changing farmers 'behaviors. 7.3 The skill in 0 24 7 transferring supports of the agricultural issues. 8.1 Communication in 29 0 2 term of the fully running conduction. 8.2 Create 30 0 1 cooperation from the related persons. 8.3 Create the 27 0 4 process related to the conduction. 9.1 The skill on the 28 0 3 attitude to conduction. 9.2 The skill in 28 0 3 analyzing the SWOT Analysis. 9.3 The skill on 0 23 8 planning in term of

Table 22 (Continued)

-			Level of	evaluation	1
KPI	criteria	good	medium	To	average
				improve	
10.The skill in	10.1 Concentrate on	29	0	2	2.87
solving the	the farmers' problems.				
problems of	10.2 Analyzing the	26	0	5	2.68
farmers .	problem system of				
	farmers .				
	10.3 The skill on	27	0	4	2.74
	managing in solving				
	the problems.				
	10.4 The skill on	0	20	11	1.65
	assessment of solving				
	the problems.				
1.The skill in	1.1 Planning the	30	0	1	2.94
managing the	exchange and learning				
exchanging-	stage.				
learning stage.	1.2 The skill on	28	0	3	2.81
	building a channel of				
	exchange - learning.				
	1.3The skill in	27	0	4	2.74
	conclusion of the				
	knowledge.				
	1.4The skill in	24	0	7	2.55
	transferring the				
	knowledge to become				
	the conduction.				
2.Managing on	2.1 Analyzing,	0	24	7	1.77
term of policy.	planning and				
	managing the policy.				

Table 22 (Continued)

		Level of evaluation			
KPI	criteria	good	medium	То	average
				improv	e
	2.2 Analyzing or	0	24	7	1.77
	synthetize the policy				
	process.				
	2.3 Bringing the	0	24	7	1.77
	policy to the				
	conduction.				
	2.4 Assessing the	0	16	15	1.52
	result in term of the				
	policy.				
3.The skill in	3.1 Developing the	0	23	8	1.74
communication.	communication				
	system.				
	3.2 Using the	25	0	6	2.61
	communication				
	process.				
	3.3 Developing the	27	0	4	2.74
	communication				
	system.			0	
	3.4The success of the	0	22	9	1.71
4 *** 1 * * * * * * * * * * * * * * * *	communication.	0	2.4	-	1.55
4. Working with	4.1 There is a good	0	24	7	1.77
the community	relationship with the				
people.	community.	2.1	0	0	2.00
	4.2 The community	31	0	0	3.00
	provided cooperation.				

.

Table 22 (Continued)

		Level of evaluation			
KPI	criteria	good	medium	To	average
				improve	:
	4.3 There is a result	30	0	1	2.94
	of working with the				
	community.				
5.The skill on the	5.1 Give a good	27	0	4	2.74
facilitator of	advice to farmers.				
farmers.	5.2 There is confident	31	0	0	3.00
	in farmers .				
	5.3 Becoming a good	31	0	0	3.00
	consultant.				
6.Resources of	6.1 There is an	28	0	3	2.81
local wisdom.	understanding the				
	local wisdom.				
	6.2 There is	27	0	4	2.74
	developing the local				
	wisdom.				
	6.3 There is an	28	0	3	2.81
	applying the local				
	wisdom.				
	6.4 There is a result of	26	0	5	2.68
	using the local				
	wisdom				

In EQ the AE good level

 Table 23
 KPI in each dimensions of the KLESS Competency Model Fifth dimension : Competency for smartness Core Competency

			Level of	evaluation	
KPI	criteria	good	medium	To	average
				improve	
1. Characteristic	1.1 Ability in setting	31	0	0	3.00
	up oneself.				
	1.2 Good dressing.	30	0	1	2.94
	1.3 Good looking.	28	0	3	2.81
	1.4 Farmers have	30	0	1	2.94
	belief and have a faith.				
2.Good behaviors.	2.1 Becoming a good	29	0	2	2.87
	example to farmers.				
	2.2 There is a good	31	0	0	3.00
	behavior.				
	2.3 There is a	30	0	1	2.94
	discipline in working				
	2.4 There is moral	31	0	0	3.00
	and ethics.				
3.Support morals	3.1 There is a	26	0	5	2.68
	favorable moral				
	quality.				
	3.2 Creating thinking	26	0	5	2.68
	for farmers to do				
	good.				
	3.3 There is moral to	30	0	1	2.94
	support farmers.				
4.Soul in working	4.1 There is an ideal	31	0	0	3.00
	and intention.				
	4.2 Paying intension	31	0	0	3.00
	and sacrifice.				

Table 23 (Continued)

			Level of evaluation			
KPI	criteria	good	medium	To	average	
				improv	e	
	4.3 Supporting	31	0	0	3.00	
	farmers to become					
	important persons.					
	4.4 There is result of	30	0	1	2.94	
	works to become					
	interests for farmers					
5. Scholar	5.1 There is scholar in	30	0	1	2.94	
	majority works.					
	5.2 Knowing about	30	0	1	2.94	
	the society					
	5.3 Knowing the	27	0	4	2.74	
	community of the					
	people					
	5.4 Knowing the	27	0	4	2.74	
	society.					
1. Attitude	1.1 Building	31	0	0	3.00	
	understanding to					
	farmers					
	1.2 Building	30	0	1	2.94	
	recognition for					
	farmers.					
	1.3 There is a good	28	0	3	2.81	
	attitude to farmers.					
	1.4 Build a good	30	0	2	2.97	
	behavior in work					
	supporting the					
	agricultural.					

 Table 23 (Continued)

			Level of evaluation		
KPI	criteria	good	medium	To	average
				improv	e
2. working	2.1 Planning working	29	0	2	2.87
strategry	in advance.				
	2.2 Using information	31	0	0	3.00
	in working.				
	2.3 Using a crisis to	30	0	1	2.94
	become a good chance				
	to support the				
	agricultural.				
	2.4 Giving advancing	31	0	0	3.00
	information to				
	farmers.				
3. There is an	3.1 There is a soul	26	0	5	2.68
ideal of	supporting the				
supporting.	agricultural				
	3.2 There is ideal to	26	0	5	2.68
	work for the				
	agricultural.				
	3.3 Paying intension	30	0	1	2.94
	to support the work				
	qualities for the				
	agricultural.				
4. There is interest	4.1 Interesting	31	0	0	3.00
and is seeking	changes of the				
more knowledge.	community.				
	4.2 Following the	31	0	0	3.00
	social important				
	movement.				

Table 23 (Continued)

	Level of evaluation		evaluatio	n
criteria	good	medium	To	average
			improve	e
4.3 Developing	31	0	0	3.00
oneself continually .				
4.4 Build the	30	0	1	2.94
learning organization				
and supporting the				
agricultural.				
	4.3 Developing oneself continually .4.4 Build the learning organization and supporting the	4.3 Developing 31 oneself continually . 4.4 Build the 30 learning organization and supporting the	criteria good medium 4.3 Developing 31 0 oneself continually . 4.4 Build the 30 0 learning organization and supporting the	criteria good medium To improve 4.3 Developing 31 0 0 oneself continually . 4.4 Build the 30 0 1 learning organization and supporting the

In the dimension of SMART for Agricultural Extensionists'is in the good level in both core competency and functional competency: so can be concluded that in 5 dimensions, mostly the Agricultural Extensionists' passed the evaluation in the good level.

The Evaluation of AE network.

The researcher has followed up and evaluated the AE's net work who passed the training Course in "The characteristic development of the Agricultural Extensionists' follows KLESS Competency Model both in network building process and results from the capacity development in network member of Agricultural Extensionists' are as follows:

1. Network building process of Agricultural Extension work The AE who passed the three months training course has utilized the knowledge and skills to develop the network in agricultural extension by supporting and promoting for more quality inside the community by evaluating the management process in agricultural extension network development and work with farmer as follows.

 Table 24 Evaluation result Agricultural Extension net work building process.

		Level of Evaluation				
Number	Evaluation aspect	good	Medium	To be	Average	
				improved		
1	Supporting the net work to join	84	10	6	2.74	
	Vision in Agricultural					
	Extension					
2	Join in set up the clear cut	91	6	3	2.88	
	target of The net work					
3	Participation in work planning	80	10	10	2.70	
	of the net work					
4	Participation in Agricultural	80	10	10	2.70	
	Extension activities					
5	Net work members got more in	83	10	7	2.76	
	helping each other					
6	Net work members has inter-	90	6	4	2.86	
	relation for more contract and					
	communication					
7	Net work members has set up	90	6	4	2.86	
	the Clear function and					
	responsibility of each					
8	Net work members has more	84	10	6	2.78	
	learning process with each					
	other					
9	Net work has avenged data	84	10	6	2.78	
	base in agricultural					
10	Net work is the enter for	90	10	0	2.90	
	public hearing and exchange					
	knowledge					

I. Net work to strong then development

Aside from the ability in net work building with suitable process, the Agricultural Agricultural Extensionists' who passed the KLESS Competency Model characteristic development course is also made more strong then by utilizing their potentiality of knowledge each from training course. The strengthening of the network can be evaluated as follows:

 Table 25
 Evaluation Result : Net work strengthening ability

		Level of Evaluation			n
No.	Evaluation aspect	good	Medium	To be	Average
				improved	ì
1	Strong core building in the net work	90	10	0	2.90
2	Good communication system inside	84	10	6	2.78
	Network				
3	Knowledge management in	90	5	5	2.85
4	Agricultural Extension in the network	84	6	10	2.74
5	team working system in the network	90	10	0	2.90
	System of studying process to each				
6	other in the net work	80	10	10	2.70
7	Efficient cooperation in the network	90	5	5	2.85
	Incuse of members who dedicate to				
	public in the net work				
8	Good relations between the	80	10	10	2.70
	members of the network				
9	Participate to solve farmer's problem	84	6	10	2.74
	in the net work				
10	Integrated local wisdom for more	90	10	0	2.90
	agricultural extension in the network				

From tables 24-25 we can mention that the Agricultural Extensionists' who passed the KLESS competency course and work after that for 3 months can be suitable to work together with farmer in the case of clear out target set up, using net work as the center for public hearing and exchange knowledge, set up clear function and responsibility of each member, net work member has inter-relation for more conduct and communication, supporting the net work to join vision in Agricultural Extension, network members has learning process to each other more-arranged data base in Agricultural, network members get more helping each other, participation in work planning and activities of the network and network strengthened in development process in the good level, there are strong core building in the network, knowledge management, system of studying process to each other, more members who dedicate to public integration of local wisdom, good communication system, team working system, efficient cooperation and more good relation between the members.

We can conclude that the net work development process and strengthen building for Agricultural Extensionists' should have the characteristic as follows:

- 1. Strong core in the net work
- 2. good communication skills
- 3. knowledge management in Agricultural Extension
- 4. good team working system
- 5. studying process with each other
- 6. efficient cooperation
- 7. members dedicated work to public
- 8. good relationship between the members
- 9. participation in solving farmer's problem
- 10. integration of local wisdom with Agricultural Extension

 Table 26 Conclusion result: the Agricultural Extensionists' characteristic

 development following KLESS competency model.

Dovolonment		Level of Evaluation			
Development dimension	indication		Medium	To be	Average
annension			i	improved	l
Knowledge core	1. Understanding in the	27	0	4	2.74
Competency	strategic Planning				
	2. Knowledge in high level	8	13	10	1.94
	Thinking				
	3. Understanding in	0	20	11	1.65
	Agricultural Context				
	4. Understanding in	29	0	2	2.87
	administration policy of				
	Agricultural Extension				
	5. Knowledge in Agri-	21	4	6	2.48
	business Context				
	6. Understanding in team	28	2	1	2.87
	working				
	7. Understanding in working	29	1	1	2.90
	Psychology				
	8. Knowledgeable in	28	0	3	2.81
	Agricultural Extension work				
Functional	1. Understanding in social	28	0	3	2.81
	context				
competency	2. Knowledge in policy	29	0	2	2.87
	management				
	3. Knowledge in giving	30	0	1	2.94
	consultation and suggestion				
	4. Understanding in local	28	0	3	2.81
	wisdom				
	5. Understanding in	28	0	3	2.81
	communication principle				

Table 26 (Continued)

Dovelonment	.1		Level of Evaluation			
Development dimension	indication	good	Medium	To be	Average	
aimension			i	improved	i	
	6. Understanding in	30	1	0	1.97	
	Agricultural Extension					
	knowledge management					
Leadership	1. Leadership status	30	0	1	2.94	
(core	2. proactive work readiness	24	0	7	2.55	
competency)	3. Leading to solve farmer's	30	0	1	2.94	
	problem					
	4. Leading to develop work	27	1	3	2.77	
	system					
	5. Leading in team working	25	5	1	2.77	
	6. Vision in work	26	4	1	2.81	
	7. human relation	27	0	4	2.74	
	8. Leading in idea initiation	19	8	4	2.48	
	9. Leader in development	25	4	2	2.74	
	human Work organization					
Functional	1.Bring learning to farmers.	28	2	1	2.87	
compe-	2.Moral and ethics.	31	0	0	3.00	
tency	3.Devote and sacrifice	30	0	1	2.94	
	oneself for agriculture.					
	4.Leading in communication.	30	1	0	2.97	
	5. Ability in persuading	26	4	1	2.87	
	others ' minds					
	6.To become oneself as an	31	0	0	3.00	
	example for farmers					
	7.Becoming a discipline	30	0	1	2.94	
	person					
	8.Transferring the knowledge	29	0	2	2.87	

Table 26 (Continued)

Development			Level of Evaluation			
Development	indication	good	Medium	To be	Average	
dimension			i	improved	l	
EQ Core	1.Emotional qualification.	30	0	1	2.94	
Competency	2. Carefulness and patience.	30	0	1	2.94	
	3. Positive thinking.	30	0	1	2.94	
	4.Using the moral issue	30	0	1	2.94	
	leading oneself.					
	5. Consciousness in working.	31	0	0	3.00	
	6.Self confidence.	30	0	1	2.94	
Functional	1. Mindfulness controls	29	0	2	2.87	
competency	oneself.					
	2. Carefulness and patience.	31	0	0	3.00	
	3. Positive thinking.	31	0	0	3.00	
	4.Using the moral issue	29	0	2	2.87	
	leading oneself.					
Skill in work	1. skill in high level thinking	4	14	13	1.71	
ability	2. skill in Agricultural	28	0	3	2.82	
	system					
	3. skill in Agri-business	13	11	7	2.19	
	management					
	4. Skill in knowledge	18	10	3	2.48	
	management for Agricultural					
	Extension					
	5. wisdom presence	0	22	9	1.71	
	6. skill in team work	28	1	2	2.84	
	management					
	7. skill in Agricultural	27	1	3	2.77	
	Extension work					
	8. skill in cooperation	27	0	2	2.68	

Table 26 (Continued)

Dovolonment			Level of	Evaluati	on
Development dimension	indication	good	Medium	To be	Average
unnension			j	improved	l
	9. skill in strategic planning	28	2	1	2.87
	10. skill in farmer's problem	29	0	2	2.87
	solving				
(functional	1. skill in public hearing and		0	1	2.94
competency)	knowledge exchange				
	management				
	2. Policy management	0	25	6	1.81
	3. skills in contact and	25	5	1	2.77
	communication				
	4. working with the	30	1	0	2.97
	community				
	5. skill in escorted	30	0	1	2.94
	6. Local wisdom source	28	0	3	2.81
Skill in the	1. Personality	30	0	1	2.94
SMART	2. Virtue action	31	0	0	3.00
(core competency	3. precept promotion	30	0	1	2.94
	4. Model in work	31	0	0	3.00
	5. knowledge flexibility	30	0	1	2.94
(functional	1. enthusiasm building to	30	0	1	2.94
competency)	other				
	2. practice working	28	1	2	2.84
	3. work with Agricultural	29	0	2	2.87
	Extension intention and spirit				
	4. eagerly to leaves catch up	29	1	1	2.90
	the knowledge				

From the table it can be concluded that the characteristic development of Agricultural Extensionists' follow the KLESS Competency Model in each dimension; the evaluation from competency some in good level, some in medium level such as knowledge (K) inside the understanding in Agricultural Context is the weak point to be fulfilled in using KLESS Competency Model. the same as work ability inside the wisdom and policy management.

The researcher has designed and developed the system of hand book which composed of

- 1. Objectives of the hand book
- 2. important aspects of the Agricultural Extension work before training, during training and after training
 - 3. Process of work in each step of training as follows

Table 27 Processes and steps of training

Timing	Characteristic of work			
Tilling	Administration	Academic Service		General service
Before the	1. Project	1. subject contain	1. training place	1. cooperation to
training	planning	2. in structure for	r 2. training	concern person
	2. Budget	training	facilities	2. document
	allocation			producing
During the	1. curriculum	1. training	1. service to	1. operate the
training	arrangement	manage	instructor	training
	2. curriculum	ment	2. service to	2. document
	control	2. supporting for	training	support
		instructer	participant	

 Table 27 (Continued)

Timing	Characteristic of work			
Tilling	Administration	Academic	Service	General service
After the	1. Analysis and	1. result and out	1. analysis for	1. collection
training	evaluation	come	service result	data and report
	2. reporting	2. project	2. report making	2. conclusion of
		evaluation		the training

CHAPTER V

CONCLUSION, RESULT ANALYSIS AND RECOMMEND

Conclusion of the research

From the analysis of building up systematic model and to produce hand book for Agricultural Extensionists' development the results revealed the important characteristics of Agricultural Extensionists' following the need of related people. The Agricultural Extensionists' should have Characteristics in 5 dimensions following KLESS competency model as shown in Figure 9

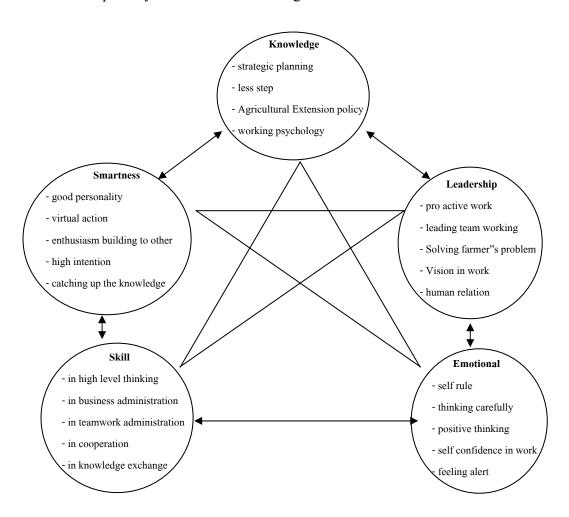


Figure 9 KLESS Competency Model Agricultural Extensionists' characteristics

Then the researcher started to develop the curriculum for Agricultural Extensionists' development by checking quality evaluation and curriculum document by research expert. The curriculum development in Agricultural Extension administration and Agricultural Extensionists' development were analyzed: quality evaluation of curriculum document by the local group conversation consisting of 5 unit of study Models, which are as follows:

Module

- (1) Characteristic development in Knowledgeable Agricultural Extensionists'
- (2) Characteristic development in Leadership of Agricultural Extensionists'
- (3) Characteristic development in maturity of Emotion of Agricultural Extensionists'
 - (4) Characteristic development in Skill of work of Agricultural Extensionists'
 - (5) Characteristic development in Smart of work of Agricultural Extensionists'

In the Agricultural Extensionists' development process it was found out that from the training result, the participants has developed the knowledge and understanding of strategic planning and high level thinking in agricultural system, in Agricultural Extension policy administration, in context of Agricultural business, in team working, in working psychology and knowledge in agricultural Extension suitable with core competency of Agricultural Extensionists' (DOAE,2002) Importance in Knowledge building and ability to develop work quality and knowledgeable in cooperation for both Internal and external agencies in the principle of the participation are also obtained

Results in the development of the characteristics of Agricultural Extensionists' in the Leadership revealed that the participants have developed their leadership by daring to show out the readiness for proactive work, leading to solve farmer's problem, team working vision in work, good human relations, leading for idea initiation and leading in self development human development, work development and organization development that are suit to the characteristic of the leader Dept of Livestock Development 2006 It was also mentioned that the leader should know all

work in his duty, role and work in full efficiency and suited to the leader stat as GRID theory (Blake& Morton,1994 as cited in Mckee& Carlson 2002) in from of perfect leadership which has characteristic of dedication to public and encouraging participants to make a linkage to understand the work and leads to success in the working style which stresses that "when work is done, men are happy, so work and men are successful together within the organization

Result of the characteristic development of Agricultural Extensionists' in emotional Maturity revealed that the sampling group who passed the training course have developed self understanding, good attitude to him self and others, calm and intelligent, positive idea morality in work, work with conscious and self confirm This is in parallel with research results of Lakesamawijan (2002) abstract which found out that positive attitude of personnel to the leader, and the leader who has positive attitude in the organization will reflect higher work efficiency.

Results in the development of characteristics of Agricultural Extensionists'on the Skill competency in Agricultural Extension work have found out that the sampling group who passed the training course have developed their skills in arrowging the pubic hearing and knowledge exchange, in policy management in contact and communication, in working with community in supporting the farmer and in the application to utilize the local wisdom for Agricultural Extention work which is also in line with the research results of Srisangchan (2004) that mentions that the important characteristic of the Agricultural Extensionists' should have skill in communication, human relations and motivation building to farmer.

Results in the development of the in characteristic of Agricultural Extensionists'in the SMART, have found out that the participants have developed pro-active work, working with principles, catching up the knowledge, good personality, good moral in work, knowledgeable and good building farmers respect and trust to the agricultural extensionists' suits the idea of Kookistkul (2003) in the leadership, his research mentioned that when one is working in the local area, he should also give true love into that local area by side with local people in order to

have unity, and one must have cooperation between government agencies and local people.

The trial of development curriculum for Agricultural Extensionists' which was developed by researcher in expert, showed that one the Characteristics of the Agricultural Extensionists' can be developed following KLESS competency Model in appearance, figure forms or illustrations and efficiency.

In the unit of study 5 Muddles in 5 dimensions have found out that in the knowledge dimension of Agricultural Extensionists' skill the weak point are in the understanding of agricultural context and in work ability and wisdom therefore concerned person should process these two dimensions for the completion of KLESS Competency Model, The result of Agricultural Extensionists' development following KLESS Competency Model perfect the development of Agricultural Extensionists' characteristics as shown in the Figure 10 below.

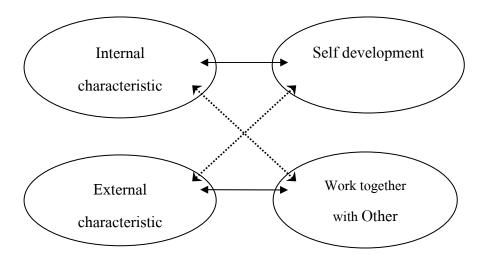


Figure 10 Result of the important characteristics development of agricultural extensionists'

From the Figure 10: the evaluation result of the curriculum of the training course for Agricultural Extensionists' are as follows.

- 1. The development of inner characteristics for
 - 1.1 self development for
 - 1.1.1 knowledge of high level thinking.
 - 1.1.2 understanding in Agricultural Extension work
 - 1.1.3 leadership status
 - 1 1 4 vision in work
 - 1.2 Work together with other for
 - 1.2.1 Strategic planning
 - 1.2.2 team working
 - 1.2.3 working psychology
 - 1.2.4 human relations in work

The characteristics development process for Agricultural Extensionists' should have self development such as high level in thinking, understanding in Agricultural Extension work, leadership status, vision in good work and also the ability in working together with other, such as strategic planning team working and building the human relations to farmer and farmer net work

- 2. The development of external characteristics for
 - 2.1 Self development as
 - 2.1.1 Leader in self development
 - 2.1.2 perceived promotion
 - 2.1.3 leader in cooperation

2.1.4 building work responsibility

2.2 working together with other as

- 2.2.1 good motivator
- 2.2.2 good morals in work
- 2.2.3 good discipline to set as example to the farmer
- 2.2.4 kind hearted with high suits.

The external characteristics of Agricultural Extensionists' in self development will give importance to the leader in self-development, perceived promotion, leader cooperation, conscious and high responsibility, as well as external characteristics development in working together with other which the AEIST should have the ability to motivate others good moral in work good discipline to set as an example to farmers and always kind hearted. The curriculum for AEIST development can adjust the study behavior from training process during in-service training where in the participants are ready in different aspect such as:

- 1. More work experience
- 2. Knowledge in agricultural extension work
- 3. Consciousness in work
- 4. Knowledge of the working rules and regulations
- 5. High responsibility

Research Results Analysis

There are 3 objectives in this research which are as follows:

1. To analyze and synthesis the characteristic model for Agricultural Extensionists' to work together with farmer and farmers net work as expected from concerned persons.

- 2. To build up systematic model and produce the hand book for the development of Agricultural Extensionists' to have potential to work with farmer and farmer net work.
- 3. To evaluate the training using systematic model and hand book for the development of Agricultural Extensionists' curriculum.

The 3 objectives of this research resulted to the development of new knowledge base both in process and resulting to manage every step of knowledge as follows:

 Table 28
 knowledge base processes and result.

Stang in wagaawah	Knowledge s	ystem
Steps in research	Knowledge in processes	Knowledge result
1. Analysis and synthesis	1. Studying process, analysis of	1. Group of the
of the characteristic of the	the document system in	characteristic
Agricultural	Agricultural Extension	of Agricultural
Extensionists'	2. Process to analyse the cha-	Extension in 5
	racteristic of Agricultural	dimension
	Extensionists' as expected from	2. Model competency
	stakeholder and check by the	of Agricultural
	expert.	Extensionists'
		Following KLESS
		competency model
2. Build p and trial in	1. Process of curriculum	1. Earning the
characteristic, of	document producing and also	curriculum document
Agricultural	analysis of quality evaluation	which passes.
Extensionists'	2. Process of Agricultural	the approval of quality
development	Extensionists' training project.	evaluation.
curriculum.		2. Earning the
		evaluation result of trial

Table 28 (Continued)

Stone in personah	Knowledge s	ystem
Steps in research	Knowledge in processes	Knowledge result
		in Agricultural
		Extensionists'
		development
		curriculum.
3. Synthesis and producing	1. Analysis process and training	1. Obtaining document:
handbook using	hand book design	training management to
Agricultural	2. Development of hand book	hand book
Extensionists'development	document and quality and	2. Results gained
curriculum.	checking and controls	quality evaluation for
		training hand book.

From Table 28 the researcher has developed experiences research and systematic study, starting from the inspiration in building up the knowledge to develops the characteristic the Agricultural characteristic of the Agricultural Extensionists' to suit with the development of Agricultural Extension work both in the duty of academic person and Agricultural Extensionists' which can work successfully, developed the people to earn the knowledge than makes quality work; gives cooperation to work together with farmer and farmer network starting from systematic study, collecting date, analysis and synthesis of the characteristic of Agricultural Extensionists'. Build-up and trial the curriculum, synthesis and the producing hand book for systematic curriculum to effect from the running in every step of the process to bring into knowledge result systema, The result from analysis came out as important characteristics of Agricultural Extensionists' which is systhesised the sign from expertise model inform of Agricultural Extensionists'in the KLESS Competency Model, consisting of 5 Modules and are related to each other (even the reason), initiate to form the continuous line of development from one character to another charactor following KLESS competency Model as figure below.

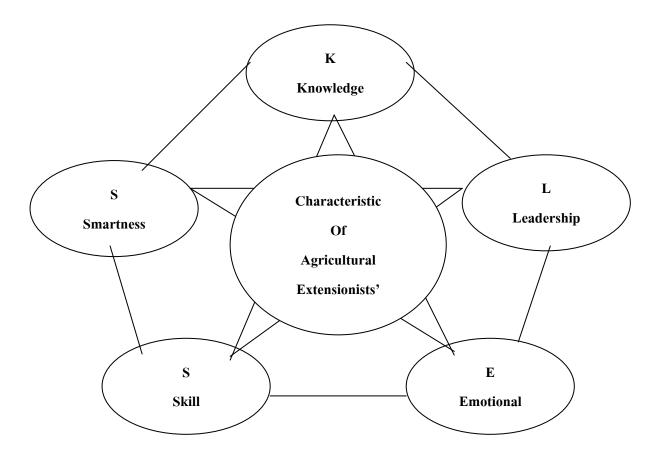


Figure 11 Characteristics of Agricultural Extensionists' (KLESS Competency Model)

and also arrange the training to 31 Agricultural Extensionists', the evaluation result came out as: successful in the learning process, participation in learning process, and utilizing the knowledge to work with farmer and farmer network which are all in the satisfaction of change, every authority are in the characteristics development of Agricultural Extensionists' all of 5 Modules, so can say that the process of utilizing the development curriculum to develop the Agricultural Extensionists' is affecting to the 2 main and 4 minor characteristic as follows:

- 1. Internal Characteristics development of Agricultural Extensionists'
 - 1.1 for self development.
 - 1.2 To work together with each other.

- 2. External Characteristics development of Agricultural Extensionists'
 - 2.1 self development.
 - 2.2 working together with each other.

The conclusion of the research: the in-services training is the stimulation of learning process, continuation of the development, strengthening capability knowledge and skills in work, work consciousness, banding the work up to success, cooperation with other, initiation knowledge based management to developed the characteristics of Agricultural Extensionists' as expected.

The research started from the analysis and synthesis of the characteristics of Agricultural Extensionists' as expected from concerned persons up to through the KLESS competency Model which developed the curriculum of the training, then trial up to evaluation, after which production of the hand book for training in every step.

The researcher also developed experiences such as knowledgebase building in systematic steps of research process until the conclusions are reached.

The cycle of working system is as shown below:

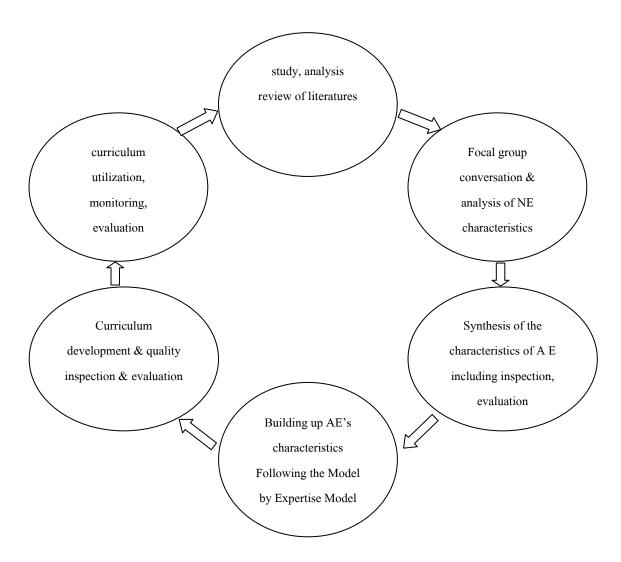


Figure 12 system for the Agricultural Extensionists' characteristics development

from Figure 12 the procedure start from study, analysis and review of literature; followed by conversation with focal group to analyze the suitable characteristics of Agricultural Extensionists'. Then follows the building up the Model of Agricultural Extension's characteristic as expected from concerned persons, Synthesis of the Model follows KLESS competency Mode, and curriculum development with document's quality inspection and evaluation by two training experts one personal development expert, and one network psychologist. The Agricultural Extensionists' characteristics development follows the KLESS

competency Model, then utilized the training curriculum which passed the quality inspection and evaluation to train by: planning, preparing, starting of training until completed of the monitoring and evaluation. The results of the research provided lesson to learn about the aspects to be adjusted or improved to suit with in the context of knowledge and skills by using "ICCMP" process as follows:

- 1. Intensive training during the work period.
- 2. Competency analysis of the target person.
- 3. Course design suit to the competency.
- 4. Motivation to work after passing the training course and giving awards to the person with good performance.
 - 5. Promotion to higher position

Recommendation

- 1. Policy recommendation
- 1.1 The organization have to give the importance for expected characteristics of Agricultural Extensionists' in two factors which are the person's competency and work system.
- 1.2 Every level of Agricultural Extensionists' should obtain the support in competency development continuously and efficiently
 - 2. Operation recommendation

- 2.1 The role of Agricultural Extensionists' in net work building and development for work quality and activity strengthening should be adjusted to the present context and continuously
- 2.2 Working standard is still not clear in format, it is therefore necessary to have leading model in work with the network.

3. For future research

- 3.1 Should find out the working system of Agricultural Extension in the local area which is suitable to the needs of concerned persons.
- 3.2 Should find out the other curriculum for continue Agricultural Extensionists'development

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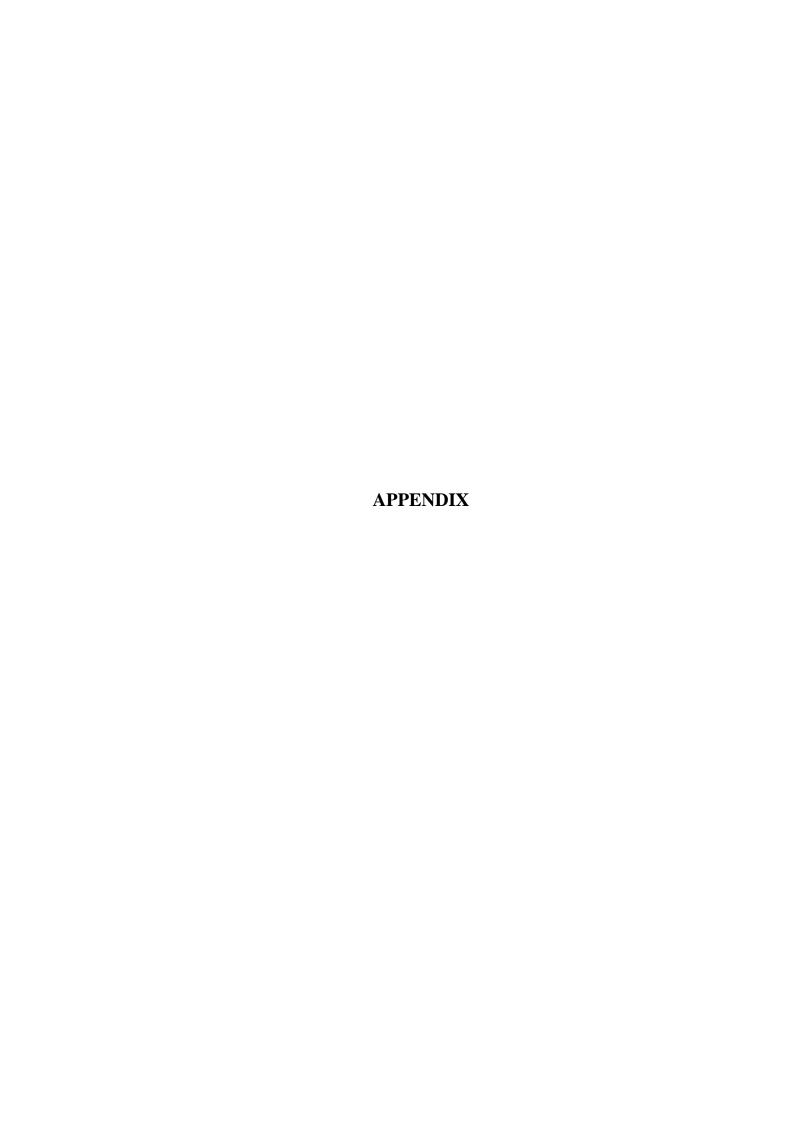
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- 16. Phairat Wangdee (MS.) Director of Provincial Agricultural Extension officer.
 - 17. Panya Phuriwakin (MS.) Director of Natural Protect Center
- 18. Aulhan Yucharernpong (MS.) Agricultural Extentionist who successfull in career.
 - 19. Kunsi Thongyoi (MS.) Charern Pokapan Co, Ltd.

- 20. Sakda Nitiphatrakul (MS.) Agricultural business.
- 21. Wilas Chansri (BS.) Agricultural Extentionist who successfull in career.
- 22. Ratchada Intiya (BS.) Mass Media CH 7.
- 23. Wrayut Thanachoksawang (BS.) Head of Small group enterprise.
- 24. Teera Wongcharean (BS.) NGO.
- 25. Sanphet Mesamsen Director of Agricultural Radio.
- 26. Hunsa Chanpet Head of Woman group.

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