

INTERNATIONAL TRAINING CENTER ON PIG HUSBANDRY

Helping the industry become globally-competitive.



ISO 9001:2015 CERTIFIED

TABLE OF CONTENTS

1	About ITCPH
5	National Trainers' Course on Pig Husbandry
9	Course on Pig Husbandry
12	National Trainers' Course on Swine Artificial Insemination
15	National Course on Animal Waste Management & Utilization
18	National Trainers' Course on Meat Processing
21	Swine Production Medicine Course
24	Animal Feed Milling Technology Course
27	Agricultural Teachers' Course on Pig Husbandry
29	Course on Sustainable Pig Farming (LABS–Pigs)
32	Course on Pig Farming as an Enterprise
35	Practical Course on Pig Husbandry for Senior Stockpersons
39	Training of Trainers on Climate–Smart Farm Business School (FBS) for Livestock and Poultry
42	Training on On–Farm and Area–Wide Disease Risk Management (Veterinary Epidemiology)
45	Ethnoveterinary Medicine: A Viable Alternative to Livestock and Poultry Therapeutics
48	Feednovation: 3Ps of Alternative Feeds
51	Training on Feed Formulation
54	Improving Hog Production through Mechanization: Training on Swine Mechanization
57	Training on Mortality Composting
60	In Cycles: Waste Management and Utilization for Small–Hold Farmers
63	Pork to Fork: Multiplying Business Opportunities
66	Refresher Course for ITCPH Alumni

VISION

The emergence of dynamic and self-sustaining rural communities of organized pig farmers doing profitable business in a globally competitive environment.

MISSION

To be known as a Center of Excellence in practical training and information dissemination on pig technology in Southeast Asia and the Pacific Region.



The Agricultural Training Institute – International Training Center on Pig Husbandry (ATI-ITCPH) is a government training center that aims to empower farmers and entrepreneurs to achieve productivity and profitability. It is one of the 16 training centers of the Agricultural Training Institute under the Department of Agriculture.

In June 1985, the Center was established through a common advocacy of the Philippine government and the Netherlands in capability-building swine technology. It is now located at Marawoy, Lipa City, Batangas.

Following the *“Learning by Doing”* principle, ATI-ITCPH offers comprehensive and practice-oriented training on pig farming and swine-related disciplines. Its training curricula include various aspects of pig husbandry, which suit the needs of our valued clientele.

Despite adversities, the Center navigated various possibilities in providing quality services. ATI-ITCPH is in full support of the resurgence of the swine industry as it aims to mitigate the ASF in the country.

This is the only specialized training center on pig husbandry in the Asia Pacific.

Program Thrusts and Services

ATI-ITCPH is committed in providing quality services through the following programs:

1. Training Program

Training programs include Artificial Insemination, Waste Management, Sustainable Pig Farming, Animal Feed Milling Technology, Swine Production Medicine, Feed Production, and more. Trainings are intended for Agriculture Extension Workers (AEWs), Farmer Leaders, and Pork Producers.

Entrepreneurship Course. The Center believes that swine farming knowledge and skills should be linked with the fundamentals of business identification, planning, and management.

Tailor-made courses. This is intended to provide support to particular training needs of the private sector.

Off-center courses. This is intended to provide off-site technical training to the local government units and farmers cooperatives and associations.

Webinar Series. This is a 10-episode online course offered to those who cannot attend on-site training.

2. Community-Adoption Program

This program offers pig technology assistance addressing the needs of a particular community.

3. Extension and Consultancy Programs

Farm Business Advisory Services. The Center's highly trained technical experts render their expertise to clients through farm visits, E-mails, SMS, Social Media platforms, or written communication. The Center also assists various organizations in strengthening technical know-how on pig husbandry.

Information Dissemination. The Center believes that information dissemination is a vital component of a training program. Technical updates are disseminated to a wider audience through the ATI-ITCPH newsletter, the publication of pig-keeping manuals (Filipino & English), and the development of print and audiovisual materials.

Techno-Demo. The ITCPH training farm is open to students/ trainees with interests in pig management. Farm visits and orientation are also facilitated through a written request.

The ATI-ITCPH's Learning-By-Doing principle provides learning experiences for capability enhancement. With its various stations, it showcases a whole farm management system wherein farm products and by-products are used for mutual benefit.

4. Networking & Partnerships

Collaborative efforts with partner institutes here and abroad are continuously established and intensified. These result in a wider base of knowledge in the development of appropriate technology options for pig producers. Linkages with private organizations are continuously pursued.

The ATI-ITCPH

The Center provides safe, reliable, and engaging learning experiences through the following:

- 📞 Highly competent technical staff with local and international training
- 📞 Classroom facilities that promote effective and positive learning
- 📞 220-sow Level Training Farm (Four Modules) showcasing different levels of pig production
- 📞 15-Boar AI Center and Laboratory
- 📞 6-ton/day Capacity Compact Feedmill
- 📞 Biogas Facility
- 📞 Mahogany Area
- 📞 Green PIGS Information Hub
- 📞 Live-Know Center
- 📞 Dormitory Hall and Guest House
- 📞 Library



National Trainers' Course on Pig Husbandry

COURSE DESCRIPTION

The National Trainers' Course on Pig Husbandry is the flagship program that ATI-ITCPH offers. It is a course for agricultural extension workers/ animal technicians from government & non-government organizations who train small-scale producers on pig husbandry.

At the end of the training, the participants shall acquire extensive knowledge and skills in pig husbandry to become effective agricultural extension workers in their respective areas.

Part of the requirements during the course is a Re-Entry Plan which addresses the observed pig production problems in their areas of assignment.

COURSE CONTENTS

Housing

→ Climatic effect, principles of housing, site and building planning, and pen layout including equipment & housing materials. Introduction to waste management.

Management and Administration

→ Farm administration, production control & planning, and management practices of the different production stages of swine.

Breeding and Genetics

→ Characteristics of the different breeds, reproduction, selection & heritability, culling, breeding systems and methods, heat detection, and artificial insemination.



Feeding and Nutrition

→ Feed composition, digestion, nutrient requirements, different feedstuffs & formulation of rations, and feeding schemes.

Health

→ Introduction to health, general preventive measures, principles of vaccination, common swine diseases, preventive medication program, and biosecurity.

Economics

→ Cost of establishing a pig farm, cost & return analysis, partial budgeting, and marketing.

Extension

→ Principles of extension & its approaches, farming systems, communication, teaching methods, program planning, monitoring and evaluation.

Electives

There are two electives which participants may choose.

- Feednovation** – fodder hydroponic production and production of alternative feeds for poultry & livestock.
- Practical Swine Genomics** – DNA testing for heritable traits.

TRAINEESHIP

A traineeship is a kind of practical work inside the farm. Activities include feeding, cleaning, recording, and other activities necessary for the animals in the assigned unit.

Upon completion of the traineeship, a technical report will be presented to the technical staff for critiquing and validation. This is part of the requirements of the course.

COURSE EVALUATION

At the end of the course, an evaluation mark is issued. This is based on the results of the various tests and performances in the activities. A Certificate of Training is awarded to participants with passing marks, otherwise, a Certificate of Attendance is given.

FIELD TRIPS / EXPOSITORY TOURS

Participants will be exposed to various swine farms, cooperatives, and other course-related agencies.

PARTICIPANTS

- Agricultural Extension Workers, preferably 40 years old and below
- Physically fit to do farm work
- An employee of a registered Non-Government Organization (NGO) who is in charge of planning, implementation, and backstopping of swine projects in the area
- Preferably a graduate with a Bachelor's Degree in Agriculture, major in Animal Science or Animal Husbandry; Doctor of Veterinary Medicine or its equivalent

**An employer's endorsement letter is required.*



Course on Pig Husbandry

COURSE DESCRIPTION

The course is designed for private individuals with interests in swine production. The course consists of theoretical and practical lessons covering various aspects of swine raising.

At the end of the training, the participants shall gain basic knowledge and skills in swine production and identify the appropriate techniques in managing a pig farm.



COURSE CONTENTS

Breeding

→ Different breeds, estrus cycle, breeding methods, heat detection, selection, culling, judging sows and gilts, and introduction to artificial insemination.

Feeding and Nutrition

→ Nutrient requirement, feeding methods, and schemes.

Economics

→ Cost of establishing pig farms, cost & return analysis, and marketing.

Housing

→ Use of different pens, equipment & tools, flooring, walling, roofing, pen layout, and waste disposal.

Health

→ Introduction to health & diseases, recognition of disease symptoms, first aid treatment, biosecurity, and herd health program.

Management and Farm Recording

→ Routine farm activities, applied farm management, Sow calendar, and computation of technical figures, and production planning.

PARTICIPANTS

→ Farm owners, employees, and enthusiasts





National Trainers' Course on Swine Artificial Insemination

COURSE DESCRIPTION

This course is intended for Swine Artificial Insemination technicians and extension workers from the government and non-government organizations.

At the end of the course, the participants shall acquire proficiency in semen evaluation, processing, and insemination. The participants are also expected to familiarize themselves with the set-up of a functional AI Laboratory and the use of basic AI equipment.



COURSE CONTENTS

Anatomy and Physiology

→ Anatomy and Physiology of the male and female urogenital system, puberty, estrus, heat detection, spermatogenesis, fertilization, and implantation.

Hygiene and Sanitation

→ Basic hygiene & sanitation principles in the laboratory, terminologies, methods, and effects of bacteria.

Laboratory Exercises

→ Bacterial isolation and culture, semen dilution, semen evaluation, and care of AI equipment.

The AI Boar and the Art and Science of AI

→ Selection, housing, nutrition, health program, construction of dummy, training of boars, semen collection, and artificial insemination.

Economics

→ Cost of establishing an AI Center, and cost analysis.

PARTICIPANTS

- Agricultural Extension Workers, preferably 40 years old and below
- Physically fit to do farm work
- An employee of a registered Non-Government Organization (NGO) who is in charge of planning, implementation, and backstopping of swine projects in the area
- Preferably a graduate with a Bachelor's Degree in Agriculture, major in Animal Science or Animal Husbandry; Doctor of Veterinary Medicine or its equivalent

**An employer's endorsement letter is required.*



National Course on Animal Waste Management & Utilization

COURSE DESCRIPTION

The course exposes participants to the different techniques of waste management procedures and utilization.

At the end of the course, participants shall understand the different effects of animal waste on the environment, identify different practices on waste management, discuss the basic principles & techniques of biogas & bio-organic fertilizer production, and identify government policies related to proper waste management.



COURSE CONTENTS

Biogas

→ Parts of a biogas plant, classification & design principles, technical design, establishment & operation, maintenance, utilization operational problems, and their remedies.

Bio-Organic Fertilizer (BOF)

→ Processing, Structural / Equipment requirements of a BOF plant, investment requirement, microbial growth determination, and processing.

Beneficial Microorganism

→ On-farm production, advantages, and disadvantages of the process, usage, and its application.

Pollution Control and Waste Water Treatment

→ Systems and design planning, waste management facilities, and equipment.

Government Policies

→ Rules and regulations implementing the Environmental Impact Statement System.

PARTICIPANTS

- Agricultural Extension Workers, preferably 40 years old and below
- Physically fit to do farm work
- An employee of a registered Non-Government Organization (NGO) who is in charge of planning, implementation, and backstopping of swine projects in the area
- Preferably a graduate with a Bachelor's Degree in Agricultural Engineering

**An employer's endorsement letter is required.*



National Trainers' Course on Meat Processing

COURSE DESCRIPTION

This course equips participants with the necessary knowledge and skills in processing pork into ham, bacon, native sausages, tocino, pork tapa, corned pork, hamburger, and many more. Meat processing provides added value to pork thereby raising the income of pig raisers.

At the end of the training, the participants are expected to understand and apply the principles of meat hygiene and sanitation, discuss the basic concepts & processes, and demonstrate the skills involved in meat processing.



COURSE CONTENTS

Hygiene and Sanitation

→ Principles & objectives, meat hygiene practices, and scope of food plant sanitation.

Meat as Raw Material

→ Components of meat classification, properties & nutritive value of meat, easy guide to meat identification, and different pork cuts.

Non-Meat Ingredients

→ Importance, use, and usage level of the different ingredients for meat processing.

Meat Preservation and Processing Pork Products

→ Basic principles of meat preservation, methods of meat preservation; demonstration, and hands-on on the processing of quick cured ham, tocino, bacon, sausages, skinless longanisa, pork tapa, hamburger, siomai, quekiam, corned pork, and embutido.

Marketing of Processed Products

→ Packaging, labeling, and cost price calculation.

PARTICIPANTS

→ AEWs of Government and Non-Government Organizations who are involved in income-generating projects and skills training for rural communities.

**An employer's endorsement letter is required.*



Swine Production Medicine Course

COURSE DESCRIPTION

The Swine Production Medicine Course is a training specifically for government veterinarians. It addresses health-related on-farm constraints. Generally, this course offers basic and advanced skills to assist the veterinary practitioner in coping with the challenges posed by the developing swine industry. Hence, the aspects of veterinary public health & zoonosis, case analysis, preventative medicine & therapeutics, and area management during disease outbreaks will be given emphasis.

This highly practical training enables veterinarians to promote and put into action disease-prevention and herd health maintenance programs for swine herds to maximize production. Additionally, the training goes a step further by providing an opportunity for the participants to acquire the necessary tools that will make them technically prepared to deal with actual disease problems in pig farms.

This training consists of theory and practical lessons, reports, case studies, and actual farm record/herd diagnosis relative to production



medicine. Trainees will undergo farm exposure to gather pertinent information on the disease status of the herd. A herd analysis will be made and reported for comments and critiquing. Likewise, participants will prepare an action plan towards the end of the course.

Private swine practitioners and diagnosticians, who have extensive knowledge on the subject matter are invited as speakers. Moreover, field trips to relevant institutions will be organized and technical people from reputable drug companies will also be invited.

COURSE CONTENTS

Status of the Philippine Pig Industry

→ Important economic data constraints, current issues and concerns, and threats and opportunities.

Analysis of Technical Performance

→ Records (flow chart analysis)

Health Issues

→ Model swine herd, area management in cases of disease outbreak, analysis of reproductive problems in the herd, determining sample size basics of serology, necropsy, handling and preservation of samples, post-mortem examination of lesions, emerging diseases of pigs, environment, pig flow, and ethnoveterinary medicine.

PARTICIPANTS

→ Public veterinarians specializing in swine

**An employer's endorsement letter is required.*



Animal Feed Milling Technology Course

COURSE DESCRIPTION

The Training of Trainers on Animal Feed Milling Technology for Small-hold Farmers is designed for feed mill managers, operators, owners, and enthusiasts. The participants shall gain practice-oriented knowledge and skills in feed milling, enabling them to tackle the problems related to optimum utilization of locally available feed ingredients. Specifically, they are expected to understand the different feed mill operations, make different feed formulations, identify good quality ingredients, identify & operate different feed mill equipment, and calculate the cost of products.

During the course, each participant is required to prepare a Re-Entry Plan based on the existing situation in his / her respective area. Participants will have field trips to different commercial and cooperative feed mills.



COURSE CONTENTS

Designs and Feedmill Operation

→ Interpretation of feed mill codes, flow diagram, feed mill layout, and technical drawings, outline of feed mill operation, capacity calculation, flow diagram, reception, handling, cleaning, and storage of raw materials; blending / dosing, grinding, mixing / pelleting, and maintenance of equipment.

Management and Economics

→ Status of the feed milling industry, capacity calculations, planning and scheduling, distribution & marketing of finished product, record keeping and time scheduling, cost price calculation, and cost of equipment & motors.

Nutrition and Feed Formulation

→ Feed composition, nutrition of pigs, poultry, and ruminants; nutrient requirements of pigs, poultry, and ruminants; safe maximum requirement of ingredients; Pearson Square, trial and error method, and computerized feed formulation.

Laboratory

→ Quality control, feed microscopy, physical and chemical analysis.

PARTICIPANTS

→ Government and NGO AEWs, who are assisting farmers in putting up a feed mill facility

**An employer's endorsement letter is required.*



Agricultural Teachers' Course on Pig Husbandry

COURSE DESCRIPTION

This course is intended for State Universities and Colleges (SUCs). It aims to strengthen the technical know-how and capability of pig husbandry. This equips teachers with methodologies for agriculture-related courses.

The module consists indicatively of eight lessons. Each one comprises various lessons that will guide and hone the skills of the participants in swine production and artificial insemination.



COURSE CONTENTS

→ Swine Breeding, Farm Management, Farm Administration, Nutrition and Feeding, Swine Housing, Swine Health, Economics, Artificial Insemination

PARTICIPANTS

→ Professors, instructors, and employees of State Universities and Colleges (SUCs)

**An employer's endorsement letter is required.*



Course on Sustainable Pig Farming (LABS-Pigs)

COURSE DESCRIPTION

The practice of conventional farming in pig enterprise has incurred a high cost of production because of the feeds and other biologics like growth hormones and antibiotics administered to the pigs. This is beyond the capacity of the farmers to invest coupled with the production of unhealthy food that is responsible for many illnesses among pork consumers.

This course intends to impart knowledge on the sustainable ways of pig production following the pattern of natural and/or organic farming. Natural farming is a culture in which animal production would receive the least or no synthetic products in terms of feed and medication.



COURSE CONTENTS

Natural Farming

→ Concepts, philosophies, and principles of natural farming such as health, fairness, ecology, and care

Guide to Sustainable Pig Production

→ The management of animals, farm planning & design, and types of rearing

Feeding Guidelines

→ Feeding ration and nutrition through natural feed formulation

Ethno-Veterinary Treatments

→ Alternative health care in sustainable pig farming; on-farm production of beneficial microorganisms & other concoctions; and Lactic acid bacteria, fermented plant & fruit juices, fish amino acid, oriental herb nutrients

PARTICIPANTS

→ Practicing livestock raisers, farmers, and enthusiasts



Course on Pig Farming as an Enterprise

COURSE DESCRIPTION

The course on Pig Farming as an Enterprise is a five-day course that is intended for extension workers/technicians of the government, private individuals engaged in managing small-scale, semi-commercial & commercial pig farms, and entrepreneurs. It is designed to equip individuals with knowledge and skills on the business and management side of pig farming.



COURSE OBJECTIVES

The training aims to enhance the entrepreneurial motivation among participants and orient them with the fundamentals of business identification, planning, and management.

COURSE CONTENTS

Entrepreneurship

→ Introduction to the basic concepts of entrepreneurship

Business Plan

→ Contents and the importance of learning to prepare a simple yet accurate business plan

The Market

→ Identification and understanding of the different markets as well as the current trend that is being encountered

Farm as an Enterprise

→ Concepts of enterprising

Organization & Management

→ Functions and roles, skills in managing an enterprise

PARTICIPANTS

→ Government and NGO AEWs/ technicians

**An employer's endorsement letter is required.*



**Practical Course on Pig Husbandry
for Senior Stockpersons**

COURSE DESCRIPTION

This is one of the Center's longest courses intended for 4-H Club members and youth, particularly out-of-school youth. Trainees shall gain knowledge and skills on pig husbandry, with traineeship activities at the farm.

The training consists of eight (8) modules / subject matters. Each comprises various lessons that will guide and hone the skills of the participants on swine production, artificial insemination, traineeship reporting, and re-entry plan writing.



COURSE CONTENTS

Housing

→ The effect of climate, principles of housing, site & building planning, & pen layout including equipment and housing materials.

Management and Administration

→ Farm administration, production control & planning, and management practices suitable to the different production stages of swine.

Breeding and Genetics

→ Characteristics of the different breeds, reproduction, selection and heritability, breeding systems and methods, heat detection and artificial insemination.

Feeding and Nutrition

→ Feed composition, digestion, nutrient requirements, different feedstuffs & formulation of rations, and feeding schemes.

Health

→ Introduction to swine health, general preventive measures, principles of vaccination, common diseases of breeders, piglets & finishers, preventive medication program, and herbal medicine.

Economics

→ Terminologies, cost of establishing a pig farm, cost & return analysis.

TRAINEESHIP

A traineeship is a kind of practical work on the farm. Each participant will work on the farm to conduct daily farm activities. Farm activities include feeding, cleaning, recording, and all special activities necessary for the animals in his / her assigned unit.

A traineeship report will be prepared at the end, including analysis and recommendations regarding the results of their respective units.

FIELD TRIPS

Field trips in swine farms, cooperatives, and other relevant institutions will be arranged.

PARTICIPANTS

4-H Club members, and youth, particularly out-of-school youth.

**An employer's endorsement letter is required.*



Training of Trainers on Climate-Smart Farm Business School (FBS) for Livestock and Poultry

COURSE DESCRIPTION

This three-week course is offered to field workers who assist, train, and introduce new technologies to livestock and poultry farmers. The course focuses on financially and environmentally sustainable production of livestock (pigs) and poultry (chickens) and provides strategies on how to cope with hazards brought by climate change. It also includes community-based needs assessment, exposing them to an area to be evaluated where they are expected to provide beneficial information to the community on how to maintain climate-smart livestock production.

At the end of the course, field workers are expected to help a community of livestock farmers identify disaster risks associated with their farming activities and provide strategies to maintain profitable and environmentally sustainable livestock and poultry production.



COURSE CONTENTS

Livestock and the environment

→ Basics of climate and weather, cases and local situations, risks and impacts, interventions

Technology Adaptations and Strategies on Climate-Smart Livestock Production

→ Breeding and Reproduction, Waste Management and Utilization, Feeding and Nutrition, Housing and Structures, Livestock and Poultry Agro-security

Tools and Methodologies for Climate-smart Livestock Production

→ Principles and Concepts of Community-Managed Disaster Risk Reduction (CMDRR), Facilitating CMDRR Methods and Process, Participatory Learning Action, Management of Livestock and Poultry Emergencies, Financial Risk Mechanisms

Climate-smart Livestock Farming as an Enterprise

→ The Producer as Entrepreneur, Understanding Marketing and Markets

Basic Concepts of Farm Profitability

→ Farm Business Management, Farm Financial Management, Farm Planning and Decision-making

Project Proposal/Business Plan

→ Climate-Smart Community Plan addressing identified disaster risk

Community Immersion

→ Participatory Disaster Risk Assessment-Consolidation analysis and validation of PDRA results

PARTICIPANTS

→ Government and Non-government livestock extension field workers involved in technical assistance, skills training, and introduction of new technologies to livestock and poultry farmers

**An employer's endorsement letter is required.*



Training on On-Farm and Area-Wide Disease Risk Management (Veterinary Epidemiology)

COURSE DESCRIPTION

With different animal disease outbreaks occurring in the country, the Philippine poultry and livestock population is at risk. This poses a threat to our food sufficiency and security. As most diseases are spread from place to place in different ways, veterinarians need to understand the pattern of disease occurrence in animal populations, its distribution and determinants, as well as the interventions needed to prevent and control them, thus studying Applied Veterinary Epidemiology is very important.



COURSE CONTENTS

Measuring Disease Frequency

→ Indicators that can provide valuable information about the distribution of the disease in a population

Patterns of Disease

→ Distribution and determinants of health and disease in animal populations

Disease Determinants and Demonstrating Association

→ Factors contributing to the disease occurrence

Outbreak Investigation and Response

→ Applied and working knowledge to respond systematically during the disease outbreak investigation

Epidemiologic Studies and Sampling

→ Methods used in veterinary epidemiologic studies and sampling

Animal Health Surveillance

→ Key components of conducting animal health surveillance

Diagnostic Test

→ Identify the presence of a disease or pathogen in animal populations

PARTICIPANTS

→ Public veterinarians specializing in swine.

**An employer's endorsement letter is required.*



Ethnoveterinary Medicine: A Viable Alternative to Livestock and Poultry Therapeutics

COURSE DESCRIPTION

This course promotes the use of ethno-veterinary medicines as a primary alternative to the use of synthetic or allopathic drugs in swine and poultry production. Participants shall learn the proper way of production, post-harvest processing technologies of common indigenous herbal medicines, and their use in swine and poultry production. They will identify different kinds of herbal plants that are of big importance in swine production most especially in organic hog farming.



COURSE CONTENTS

Ethnoveterinary Medicine

→ Preparation of ethnoveterinary medicine; oil, ointment, powders, sprays; use & usage level and practical applications

Beneficial Microorganisms

→ On-farm production, uses, and usage level

PARTICIPANTS

- Government and NGO AEWs
- Pork producers / animal keepers (for AEWs)

**An employer's endorsement letter is required (for AEWs).*



Feednovation: 3Ps of Alternative Feeds

COURSE DESCRIPTION

The Feednovation: 3 Ps of Alternative Feed Production and Processing is a training specifically for backyard pig raisers. It addresses issues in increasing feed costs, diminishing agricultural lands, and drastic effects of climate change. This course offers knowledge and skills on alternative ways of producing alternative feeds, from propagation to processing of the feedstuff. Identifying local and available feedstuffs and harvesting them will provide the participants with additional skills that will make the application of the knowledge gained convenient. Aspects of feed safety, feed formulation, and economics will also be given emphasis.

This course combines theoretical and practical classes to promote the use of local feedstuffs rich in nutrients but is more affordable and accessible. Furthermore, the participants can develop their creativity skills in the process of hydroponics and aquaponics fodder production.

This training consists of theory and practical lessons and actual farm visits relative to alternative feed production. Trainees will undergo farm exposure to identify and collect information on the available feedstuffs and observe the instructor while the feedstuffs are processed. Likewise, participants are also to propagate their feedstuffs using the available tools and materials.

Private swine practitioners and farmer scientists are invited as speakers to share their extensive knowledge on the subject matter. A field trip to a relevant farm will also be organized for the participants to observe and learn from.

COURSE CONTENTS

Updates on Feed Production in the Philippines

→ Important updates and status of feed production in the Philippine scenario.

Alternative Feeds

→ Common alternative feedstuffs in the Philippines, advantages and risks when feeding alternative ingredients; identification of feedstuffs available at ITCPH.

Alternative Ways of Production, Propagation, and Processing of Feeds

→ Different ways of culturing, propagating, and processing feedstuffs, do-it-yourself hydroponics, and aquaponics fodder production.

Feed Safety, Feed Formulation, and Economics Feeding Management

→ Feeding recommendation when using alternative feeds.

PARTICIPANTS

→ Government and NGO AEWs

**An employer's endorsement letter is required.*



Training on Feed Formulation

COURSE DESCRIPTION

Feed costs have historically represented 60–80% of the variable costs of swine production and are even higher nowadays for many producers. Feed costs play a major role in determining the profitability of a swine enterprise and it is important therefore that much attention be given to feeds and the methods by which they could be produced at the least possible cost.

Feed formulation is one of the basic needs in animal production industries. To meet the animal's requirement at a particular stage of production, it is very important to formulate the diet efficiently. In formulating a ration, a combination of feed ingredients that adequately meets the nutrient requirement of an animal is the main objective.



COURSE CONTENTS

Basics of Nutrition

→ The digestive system of pigs, poultry, and ruminants

Feed Formulation and Production

→ Different ingredients & formulations of feeds and their safe maximum inclusions

PARTICIPANTS

→ Government and NGO AEWs

→ Pig producers and breeders

**An employer's endorsement letter is required (for AEWs).*



Improving Hog Production through Mechanization: Training on Swine Mechanization

COURSE DESCRIPTION

In general, the level of agricultural mechanization in the country is low as compared to other Asian countries. The level of Philippine mechanization in farming is still dominated by human and animal technology. Mechanization may not increase production per se but it could increase land and labor productivity in terms of production per unit area per unit time.

The DA through the National Livestock Program (NLP) have been pushing for the modernization and mechanization of farms to provide sufficient food production to meet the growing demand for pork all over the country.

This module will discuss on how to boost hog production by upgrading and mechanizing the system to which farm owners/producers can cope to the increasing demand of pork meat and by-products.



COURSE CONTENTS

Status of Agricultural Mechanization in the Philippines

→ Trend and history of mechanization in the Philippines

Levels on Mechanization

→ Practices of swine raisers in the Philippines

Policies and Laws on Agricultural Mechanization

→ Policies and programs related to Philippine mechanization

Internet of Pig (IoP)

→ Latest innovations and technology in pig production and management

Technology in Farm Management

→ Different technological practices in farm management

Farm Tools and Equipment

→ Determine the common livestock tools and equipment and introduce practices and advancement in other countries

Climate-Controlled Swine Housing

→ Compute the tunnel ventilation requirement of a farm

PARTICIPANTS

→ Government and NGO AEWs

→ Pig producers and breeders / Farm owners

**An employer's endorsement letter is required (for AEWs).*



Training on Mortality Composting



GALING Univet. *Galing Univet.*

COURSE DESCRIPTION

Hog raisers need to think about how to manage the mortality before a death occurs. They are responsible for disposing of these mortalities within 24 hours in an environmentally acceptable manner. Aside from animal waste, the safe disposal of carcasses is an important issue for the day-to-day, routine management of livestock and poultry mortalities to prevent disease transmission and to protect air and water quality.

Carcass disposal remains one of the major problems facing livestock and poultry producers. Producers must take special precautions with the disposal of dead animals because the government may have stricter and different mortality handling and disposal requirements for certain infectious diseases.



COURSE CONTENTS

Composting Basics

→ Be familiar with the proper procedure for composting

Disposal Method

→ The proper disposal method of dead animals

Size of the Composting Structure

→ Design the appropriate size of the composting structure

PARTICIPANTS

→ Government and NGO AEWs

→ Pig producers / Farm owners / Animal keepers

**An employer's endorsement letter is required (for AEWs).*



In Cycles: Waste Management and Utilization for Small-Hold Farmers

COURSE DESCRIPTION

At the end of the course, the participants are expected to develop a plan to manage and utilize properly the animal wastes on their farm. Specifically, at the end of the training, the participants will be able to identify the effects of improper waste management and the different techniques of different waste management and utilization procedures; discuss the basic principles of biogas, and compute the average manure production and size of a biogas digester; explain the principles of LABS and the process of Vermicomposting and Mortality Composting; and develop a waste management plan for his farm/community.



COURSE CONTENTS

- Approaches to an Environment-Friendly Pig Production
- Options for Animal Waste Management and Utilization
- Biogas Production and Utilization in Small Farms
- Lactic Acid Bacteria Serum
- Vermicomposting and Bio Organic Fertilizer
- Mortality Composting

PARTICIPANTS

- Government and NGO AEWs
- Pig producers / Animal keepers

**An employer's endorsement letter is required (for AEWs).*



Pork to Fork: Multiplying Business Opportunities

COURSE DESCRIPTION

After the course, learners will be able to demonstrate confidence in applying and using the skills they have learned in their business. Specifically, at the end of the training, the participants will be able to understand the importance of the value chain; determine the possible business opportunities and identify the constraints/challenges of the value chain in the pig industry; analyze market and demand projection; and design a business plan.



COURSE CONTENTS

- Value Chain Analysis of Pork Production
- Demand Projection and Market Analysis
- Business Opportunities along the Value Chain Analysis of Pork Production
- Business Plan (Workshop)

PARTICIPANTS

- Government and NGO AEWs
- Pig producers, entrepreneurs, and businessmen who are looking for business opportunities that would add value to their products

**An employer's endorsement letter is required (for AEWs).*



Refresher Course for ITCPH Alumni

COURSE DESCRIPTION

The Refresher Course is offered to ITCPH Alumni. It serves as an avenue to upskill participants with new and emerging technologies in all aspects of pig husbandry.

At the end of the training, the participants shall acquire extensive knowledge and skills to become more effective agricultural extension workers in their respective areas.



COURSE CONTENTS

→ The course offers topics on updates, current trends, issues, and developments in pig husbandry and related disciplines. *(The topic changes depending on the theme).*

PARTICIPANTS

→ Agricultural Extension Workers of government organizations (GO) and non-government organizations (NGO), teachers of agriculture schools, State universities & colleges, farmers & farmer organizations, and interested private individuals

**An employer's endorsement letter is required.*

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