



Technical Education
and Skills Development Authority

Webliography

The Webliography is an electronic bibliographic listing of topics related to the qualification titles of a particular TVET priority sector, with pre-searched *URLs* (uniform resource locators) and descriptions (abstracts).

The pre-searched *URLs* provide contents in reference to the title of promulgated Training Regulations (TR). By clicking the weblinks (underlined *URLs* in blue text), your internet browser will direct you to the website/webpage where you can find the topic related to the title you selected. The Webliography is a useful tool for trainers who are designing and developing competency-based curriculum and learning materials.

[TESDA](#) » [Webliography](#) » [Agriculture, Forestry and Fishery Sector](#)

INTERNET RESOURCES

Agriculture, Forestry and Fishery sector

Scope:

Scope: this refers to cultivation of crops through soils and other medium growing of trees, raising of livestock, poultry, or fish which includes harvesting, processing and marketing of product of farm activities and practices.

Source:

<http://www.dole.gov.ph/nationalsummit/Think>

List of qualifications:

- Agricultural crops production NC I & III
- Agricultural machinery operation NC II
- Agroentrepreneurship NC II, III & IV
- Animal health care and management NC III
- Animal production NC II
- Aquaculture NC II
- Fish capture NC I & II
- Fish port/wharf operations NC I
- Fishing gear repair and maintenance NC II
- Horticulture NC II & III
- Landscape installation and maintenance (softscape) NC II
- Pest management (vegetable) NC II
- Rice machinery operations NC II

❖ Career profiles for agribusiness

<https://www.agcareers.com/career-profiles/>

This webpage from Maricopa.edu consists of two (2) web pages of career profiles and provides the advancement, projected job growth, forms for completion during internships/ assessment.

[Updated May 2019]

❖ Closing the productivity gap in agribusiness

<http://siteresources.worldbank.org/INTPHILIPPINES/Resources/Dy-word.pdf>

This webpage provides a report that focuses on the analysis of Philippine agriculture in comparison to selected Asian countries and discusses the factors that influence agribusiness investment.

[Updated May 2019]

❖ Performance of Philippine Agriculture

<https://psa.gov.ph/content/performance-philippine-agriculture-0>

This webpage provides a report that presents the performance of agriculture in terms of the sector's gross output. It comes with the following data tables namely; Value of Production at Constant Prices, Value of Production at Current Prices, Percentage Distribution of Value of Production, Volume of Production and Weighted Average Farmgate Prices of Agricultural Commodities.

[Retrieved May 2019]

❖ Occupational health and safety in the care and use of nonhuman primates

http://www.nap.edu/catalog.php?record_id=10713

This webpage provides researches on the new infectious hazards are importance at nonhuman-primate facilities, an example that B virus be transmitted via splash...

[Updated May 2019]

❖ Risk management: the principles underlying the design and implementation of an OHSP

http://www.nap.edu/catalog.php?record_id=10713

This is a searchable site; free PDF access and twenty-three (23) web pages of document, It provides guidance to the regulatory authorities for the use of regulation of medical devices, and subject for consultation throughout the development.

[Updated May 2019]

❖ How important is Agriculture to the Philippine Economy?

<http://www.gonegosyo.net/blog/gn-agri/how-important-is-agriculture-to-the-philippine-economy/>

This webpage provides information on the importance of agriculture in the country and its role in sustainable economy in rural areas.

[Updated May 2019]

INTERNET RESOURCES

Agricultural Crops Production NC I

This qualification consists of competencies that a person must achieve in the production of crops such as rice, vegetables, fruits and nuts as well as many others. Workers operating at this level and using these competencies would be working without previous experience in this industry sector. They would be undertaking a small range of skills and they would be under constant supervision or working alongside a more competent worker with some supervisory skills. They would be undertaking basic crop husbandry and work orientation skills.

Basic Competencies:

- Receive and respond to workplace communication
- Work with others
- Demonstrate work values
- Practice basic housekeeping procedures

Common Competencies:

- Apply safety measures in farm operations
- Use farm tools and equipment
- Perform estimation and calculations
- Apply basic first aid

Core Competencies:

- Support horticultural crop work
- Support nursery work
- Support agronomic crop work
- Support irrigation work

❖ Workplace Communication: Importance, Strategies & Examples

<https://study.com/academy/lesson/workplace-communication-importance-strategies-examples.html>

This webpage provides recommended lessons and courses in workplace communication. It also includes definition and important advantages.

[Retrieved January 3, 2019]

❖ Working with Others

<https://www.macmillanihe.com/studentstudyskills/page/Working-with-others/>

This webpage provides information on team and group project work. It includes people skills, skillful listening, group work and teamwork, and support groups.

[Retrieved January 3, 2019]

❖ Understanding Workplace Values

<https://www.mindtools.com/pages/article/understanding-workplace-values.htm>

This webpage shows how to find people who fit your organization's culture. It includes the importance of workplace values, core values in the workplace, and how to understand people's workplace values.

[Retrieved January 3, 2019]

❖ Practice good housekeeping in the workplace

<https://www.safetyandhealthmagazine.com/articles/9287-practice-good-housekeeping-in-the-workplace>

This webpage provides information on good housekeeping practices including occupational health safety. It includes links to related articles on housekeeping in the workplace.

[Retrieved January 3, 2019]

❖ Farm Implements and Safety practices in using farm tools and equipment

<https://www.slideshare.net/RochelleNato/farm-implements-and-safety-practices-in-using-farm-tools-and-equipment>

This webpage provides downloadable information on farm implements and safety practices in using farm tools and equipment.

[Retrieved January 3, 2019]

❖ Lesson 1 Use of Farm Tools and Equipment

<https://www.slideshare.net/RochelleNato/lesson-1-use-of-farm-tools-and-equipment>

This webpage provides downloadable information on the use of farm tools and equipment.

[Retrieved January 3, 2019]

❖ Perform Estimation and Basic Calculation

<https://prezi.com/muel0ryjurvp/perform-estimation-and-basic-calculation/>

This webpage provides a Prezi presentation to perform estimation and basic calculation that also includes full transcript of the topic.

[Retrieved January 3, 2019]

❖ Basic First Aid

<https://articles.extension.org/pages/66375/basic-first-aid>

This webpage provides information in first aid training for different types of injuries and conditions. It includes some videos on related topics.

[Retrieved January 3, 2019]

❖ Major Crops Statistics of the Philippines – Regional and Provincial

<https://psa.gov.ph/content/major-crops-statistics-philippines-regional-and-provincial>

This webpage provides information on major crops statistics of the country's provinces from 2002-2014.

[Retrieved November 21, 2018]

INTERNET RESOURCES

❖ Agronomic Crops Distinguished from Horticultural Crops

<https://www.cropsreview.com/agronomic-crops.html>

This webpage provides an explanation in the use of the terms agronomic and horticultural.

[Retrieved November 21, 2018]

❖ Production Horticulture Introduction to Module 5

http://dera.ioe.ac.uk/5120/78/Ho_module5_Redacted.pdf

This webpage provides a module on production horticultures with skills checklist in order to produce quality plants.

[Retrieved November 21, 2018]

❖ What does a nursery worker do?

<https://www.sokanu.com/careers/nursery-worker/>

This webpage provides answers to inquiries on the career of a nursery worker.

[Updated May 24, 2019]

❖ Methods of Cultivation

<https://www.wisegeek.com/what-are-the-different-methods-of-plant-cultivation.htm>

This webpage contains different methods of cultivation, its advantages and disadvantages.

[Updated May 24, 2019]

❖ Irrigation and Drainage Work

<https://www.worldbank.org/en/topic/irrigationanddrainage/overview>

This webpage provides information about the different methods of plant cultivation including irrigation and drainage work to support plant growth.

[Updated May 24, 2019]

❖ Production Practices

<http://www.farmbiosecurity.com.au/essentials-toolkit/production-practices/>

This webpage provides information on farm safety including the implementation of biosecurity measures in managing the farm.

[Updated May 24, 2019]

❖ Good Agricultural Practices

<https://ncfreshproducesafety.ces.ncsu.edu/ncfreshproducesafety-good-agricultural-practices/>

This webpage provides basic environmental and operational conditions necessary for the production of safe, wholesome fruits and vegetables.

[Updated May 24, 2019]

Agricultural Crops Production NC II

This qualification consists of competencies that a person must achieve to produce various agricultural crops which include performing nursery operations, planting, caring and maintaining of crops and carrying-out harvest and postharvest operations.

Basic Competencies:

- Participate in workplace communication
- Work in a team environment
- Practice career professionalism
- Practice occupational health and safety procedures

❖ How to Participate in Workplace Communications

<https://careertrend.com/participate-workplace-communication-2325.html>

This webpage provides information on the importance of workplace communication. It also provides links to workplace communication related topics.

[Retrieved January 3, 2019]

❖ Working in a Team Environment: Definition & Skills

<https://study.com/academy/lesson/working-in-a-team-environment-definition-skills-quiz.html>

This webpage contains information on working in a team environment with video related to the topic.

[Retrieved January 3, 2019]

❖ Practicing Career Professionalism, Part 1

<https://hubpages.com/business/Practicing-Career-Professionalism-Part-1>

This webpage provides information on practicing career professionalism with related topics in personal development.

[Retrieved January 3, 2019]

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Common Competencies:

- Apply safety measures in farm operations
- Use farm tools and equipment
- Perform estimation and calculations
- Process farm wastes
- Perform record keeping

Core Competencies:

- Perform nursery operations
- Plant crops
- Care and maintain crops
- Carry-out harvest and postharvest operations

❖ Practice Occupational Safety and Health Procedures

<https://www.slideshare.net/MaryjoyElynethDuguran/practice-occupational-safety-and-health-procedures>

This webpage from slideshare provides a slide show to practice occupational safety and health procedures (with transcript).

[Retrieved January 3, 2019]

❖ Industrial Waste Processing and Recovery

<http://www.rgregycling.co.uk/pages/industries/agricultural-waste-recycling>

This webpage provides information in modern agricultural waste processing, separation and sorting, and agricultural recycling equipment with links to related topics.

[Retrieved January 3, 2019]

❖ How to Keep Farm Records

<https://www.thespruce.com/how-to-keep-farm-records-3016896>

This webpage provides information in the importance of keeping farm records with links to related topics.

[Retrieved January 3, 2019]

❖ Planting plans

<http://www.njlandscapes.com.au/planting-plan/>

This webpage maps out what plants to put where, creating a landscape that optimizes the resources you have available and takes into consideration the specific amount of space available, the aspect, the soil conditions and the desired effect you want to achieve. It graphically shows the exact location, sizes and species of all new and existing plants within the garden.

[Updated May 24, 2019]

❖ Plan before you plant

<https://mdc.mo.gov/trees-plants/seedlings-order-and-planting-guide/planting-guide>

This webpage help you create a good planting plan. It will guide you on proper site preparation, planting stocks, matching tree species with site soils, proper planting methods and protection and care after planting.

[Updated May 24, 2019]

❖ Interpreting a planting plan

http://www.jsw.org.au/elearning/hortII/PlantTreesAndShrubs/content_sections/html_pages/203a_1_page3.htm

This webpage contains information on how to interpret planting plans correctly before planting.

[Updated May 24, 2019]

❖ Methods of Cultivation Adopted by Farmers for Increasing Production

<http://www.yourarticlelibrary.com/cultivation/methods-of-cultivation-adopted-by-farmers-for-increasing-production/10797/>

This webpage contains two methods of cultivation adopted by farmers for increasing production, with pictorial illustrations.

[Updated May 24, 2019]

❖ What are the Different Methods of Plant Cultivation?

<http://www.wisegeek.com/what-are-the-different-methods-of-plant-cultivation.htm>

This webpage contains a wide array of methods, practices and styles of plant cultivation, from flowers and foliage plants to vegetables and herbs.

[Updated May 24, 2019]

❖ Mixed farming and intensification of animal production systems

<http://www.fao.org/wairdocs/ilri/x5462e/x5462e0i.htm>

This webpage pertains to the types of mixed farming and the importance of intensive crop–animal production system.

[Updated May 24, 2019]

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❖ Organic e-prints:

<http://www.organicresearchcentre.com/?go=information%20and%20publications&page=Organic%20FM%20Handbook>

This webpage is an open access to a full text article with related research on organic agricultural production.

[Updated May 24, 2019]

❖ Agricultural training institute

<http://ati.da.gov.ph/ati-main/search/node/agricultural%20crop%20production>

This webpage is the home of e-extension in the Philippines under the Department of Agriculture featuring agriculture-related issues and events.

[Updated May 24, 2019]

Agricultural Crops Production NC III

This qualification consists of competencies that a person must achieve in managing small farm. Specifically it involves competencies in making decision and carrying out competencies in relation to establishment, maintenance and harvesting of agronomic crops such as coarse grains, grain legumes, coffee, coconuts, cotton, soya beans, peanuts and sugar cane. Workers at this level would be working autonomously and likely to own a small enterprise or work within a cooperative structure.

Basic Competencies:

- Lead workplace communication
- Lead small teams
- Develop and practice negotiation skills
- Solve problems related to work activities
- Use mathematical concepts and techniques
- Use relevant technologies

Common Competencies:

- Apply safety measures in farm operations
- Use farm tools and equipment
- Perform estimation and calculations

Core Competencies:

- Prepare land for agricultural crop production
- Implement post-harvest program
- Implement plant nutrition program
- Control weeds
- Prepare and apply chemicals
- Establish agronomic crops

❖ Lead Workplace Communication

<https://www.coursehero.com/file/14771162/Lead-Workplace-Communication/>

This webpage provides information on the topic to lead workplace communication. It also includes links to related topics.

[Retrieved January 3, 2019]

❖ 10 Steps to Lead a Small But Effective Team

<https://www.fastcompany.com/3047244/10-steps-to-lead-a-small-but-effective-team>

This webpage provides tips on how to lead a small but effective team including a video on 7 Steps to Building a Dream Team for Your Company.

[Retrieved January 3, 2019]

❖ 7 Steps for Effective Problem Solving in the Workplace

<https://www.mediate.com/articles/thicks.cfm>

This webpage provides tips on how to effectively solve problems in the workplace with links to related topics.

[Retrieved January 3, 2019]

❖ Chapter 2: Basic Mathematical Concepts and Methods

https://www.springer.com/cda/content/document/cda_downloadaddocument/9783642137471-c1.pdf?SGWID=0-0-45-1041143-p174012669

This webpage provides information in basic mathematical concepts and methods including functions of real variables and other related topics.

[Retrieved January 3, 2019]

❖ Use of Technology in Agriculture

<https://www.useoftechnology.com/technology-agriculture/>

This webpage provides information in using technology for the agricultural industry. It also contains links and pictures related to the topic.

[Retrieved January 4, 2019]

❖ ASEAN Guidelines on Soil and Nutrient Management

<https://asean.org/wp-content/uploads/2012/05/7.-ASEAN-Soil-Nutrient-Guidelines.pdf>

This document highlights the voluntary work of the ASEAN Expert Group on Soil and Nutrient Management that contains advises and recommendations regarding agricultural land preparation and uses.

[Updated May 24, 2019]

❖ Good Agricultural Practices and Good Handling Practice

<https://www.ams.usda.gov/services/auditing/gap-ghp>

This webpage provides information on the required agricultural practices that address environmental, economic and social sustainability for an on-farm process.

[Updated May 24, 2019]

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- Undertake agronomic crop maintenance activities
- Undertake agronomic crop harvesting activities
- Save, prepare and store agricultural seed
- Implement vertebrate pest control program

Elective Competencies

- Follow site quarantine procedures
- Collect samples for a rural production or horticultural monitoring program
- Prepare grain storage
- Comply with industry quality assurance requirements
- Maintain and monitor environmental work practices
- Keep records for farm business
- Perform specialized machinery maintenance
- Install irrigation systems

❖ Postharvest management of Fruits and Vegetables

https://www.springer.com/cda/content/document/cda_downloadaddocument/9783319091310-c2.pdf?SGWID=0-0-45-1489550-p176838596

This document provides information on postharvest management of fruits and vegetables storage. It also tackles some issues on environmental management and protection of soil and water to achieve sustainable agriculture.

[Updated May 24, 2019]

❖ Basic Practices: Postharvest Handling

<https://www.youtube.com/watch?v=2UeMXb7dbyk>

This webpage provides a video presentation on the basic practices postharvest handling of high valued vegetables. It also provide samples of produce that does not meet specifications and farm standards.

[Updated May 24, 2019]

❖ Post-Harvest Management of Fruits & Vegetables

<https://www.youtube.com/watch?v=1TYbcXxVU0U>

This webpage provides post-harvest management of fruits and vegetables to include handling, palletization, containerization and transportation.

[Updated May 24, 2019]

❖ Food Processing and Post-Harvest Technology

<http://www.fft.agnet.org/library.php?func=category&type=3>

This webpage provides links to information and issues in agricultural management in Asian countries.

[Updated May 24, 2019]

Agricultural Machinery Operation NC II

This qualification consists of competencies that an Agricultural Machinery Operator, Agricultural Tractor Operator, Agricultural Post-harvest Machinery Operator or Agricultural Production Machinery Operator must have in order to operate agricultural small production machinery and equipment, operate agricultural large production machinery and equipment and operate agricultural post-production machinery and equipment.

Basic Competencies

- Participate in workplace communication
- Work in team environment
- Practice career professionalism
- Practice occupational health and safety procedures

Common Competencies

- Apply Safety Measures in Farm Operations
- Use Farm Tools and Equipment
- Perform Estimation and Basic Calculation

Core Competencies:

❖ Workplace Communication: Importance, Strategies & Examples

<https://study.com/academy/lesson/workplace-communication-importance-strategies-examples.html>

This webpage provides recommended lessons and courses in workplace communication. It also includes definition and important advantages.

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❖ Working with Others

<https://www.macmillanihe.com/studentstudyskills/page/Working-with-others/>

This webpage provides information on team and group project work. It includes people skills, skillful listening, group work and teamwork, and support groups.

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❖ Understanding Workplace Values

<https://www.mindtools.com/pages/article/understanding-workplace-values.htm>

This webpage shows how to find people who fit your organization's culture. It includes the importance of workplace values, core values in the workplace, and how to understand people's workplace values.

[Retrieved January 3, 2019]

❖ Practice good housekeeping in the workplace

<https://www.safetyandhealthmagazine.com/articles/9287-practice-good-housekeeping-in-the-workplace>

This webpage provides information on good housekeeping practices including occupational health and safety. It includes links to related articles on housekeeping in the workplace.

[Retrieved January 3, 2019]

❖ Farm Implements and Safety practices in using farm tools and equipment

<https://www.slideshare.net/RochelleNato/farm-implements-and-safety-practices-in-using-farm-tools-and-equipment>

This webpage provides downloadable information on farm implements

INTERNET RESOURCES

- Operate agricultural small production machinery equipment
- Operate agricultural large production machinery equipment
- Operate agricultural post-production machinery equipment

and safety practices in using farm tools and equipment.

[Retrieved January 3, 2019]

❖ Lesson 1 Use of Farm Tools and Equipment

<https://www.slideshare.net/RochelleNato/lesson-1-use-of-farm-tools-and-equipment>

This webpage provides downloadable information on the use of farm tools and equipment.

[Retrieved January 3, 2019]

❖ Perform Estimation and Basic Calculation

<https://prezi.com/muel0ryjurvp/perform-estimation-and-basic-calculation/>

This webpage provides a Prezi presentation to perform estimation and basic calculation that also includes full transcript of the topic.

[Retrieved January 3, 2019]

• Basic First Aid

<https://articles.extension.org/pages/66375/basic-first-aid>

This webpage provides information in first aid training for different types of injuries and conditions. It includes some videos on related topics.

[Retrieved January 3, 2019]

❖ Agricultural and Farming Products and Equipment Information

https://www.globalspec.com/learnmore/specialized_industrial_products/agricultural_farming_products_services_equipment

This webpage provides information on agricultural and farming products and equipment including security and structures for special types of farming. Links to other information are also available.

[Updated May 24, 2019]

❖ Choosing Essential Equipment for Your Small Farm Business

<https://articles.bplans.com/choosing-essential-equipment-small-farm-business/>

This webpage provides a guide in choosing the right equipment for small farm business.

[Updated May 24, 2019]

❖ Names of Farm Equipment

<https://www.hobbyfarms.com/names-of-farm-equipment-4/>

This webpage provides information on different equipment for farming.

[Updated May 24, 2019]

❖ Details Report for: 45-2091.00-Agricultural Equipment Operators

<https://www.onetonline.org/link/details/45-2091.00>

This webpage provides the job description of agricultural equipment operators with details on tasks to be performed, tools to be used, skills and work activities, among others.

[Updated May 24, 2019]

❖ Farm Equipment Safe Operating Procedures

<https://ehs.msu.edu/occ/tractors/safe-operating-procedures.html>

This webpage provides some procedures in operating farm field equipment for use in agricultural operations.

[Updated May 24, 2019]

Agroentrepreneurship NC II

This qualification consists of competencies that a person must achieve to assess market opportunities, establish farm production plan, handle finances, and market produce.

❖ How to Participate in Workplace Communications

<https://careertrend.com/participate-workplace-communication-2325.html>

This webpage provides information on the importance of workplace communication. It also provides links to workplace communication related topics.

[Retrieved January 3, 2019]

❖ Working in a Team Environment: Definition & Skills

<https://study.com/academy/lesson/working-in-a-team-environment->

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Basic Competencies:

- Participate in workplace communication
- Work in a team environment
- Practice career professionalism
- Practice occupational health and safety procedures

Common Competencies:

- Apply safety measures in farm operations
- Use farm tools and equipment
- Perform estimation and calculations
- Process farm wastes
- Perform record keeping

Core Competencies:

- Assess market opportunities
- Establish farm production plan
- Handle finances
- Market produce

[definition-skills-quiz.html](#)

This webpage provides information on working in a team environment with video related to the topic.

[Retrieved January 3, 2019]

❖ **Practicing Career Professionalism, Part 1**

<https://hubpages.com/business/Practicing-Career-Professionalism-Part-1>

This webpage provides information on practicing career professionalism with related topics in personal development.

[Retrieved January 3, 2019]

❖ **Practice Occupational Safety and Health Procedures**

<https://www.slideshare.net/MaryjoyElynethDuguran/practice-occupational-safety-and-health-procedures>

This webpage from slideshare provides a slide show to practice occupational safety and health procedures with transcript.

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❖ **Farm Implements and Safety practices in using farm tools and equipment**

<https://www.slideshare.net/RochelleNato/farm-implements-and-safety-practices-in-using-farm-tools-and-equipment>

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❖ **Industrial Waste Processing and Recovery**

<http://www.rgrecycling.co.uk/pages/industries/agricultural-waste-recycling>

This webpage provides information in modern agricultural waste processing, separation and sorting, and agricultural recycling equipment with links to related topics.

[Retrieved January 3, 2019]

❖ **How to Keep Farm Records**

<https://www.thespruce.com/how-to-keep-farm-records-3016896>

This webpage provides information in the importance of keeping farm records with links to related topics.

[Retrieved January 3, 2019]

❖ **What is Agropreneurship?**

<https://www.igi-global.com/dictionary/agropreneurship-among-gen-y-in-malaysia/58756/>

This webpage defines agropreneurship as activities practiced by individuals who own goals to create wealth by applying innovative skills within the agriculture industry. Thumbnail links to related articles are also available.

[Updated May 24, 2019]

❖ **Identifying Market Opportunities for Rural Smallholder Producers**

<https://www.crs.org/sites/default/files/tools-research/identifying-market-opportunities-for-rural-smallholder-producers.pdf>

This document provides a guide to support agencies implementing a

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participatory approach to rural agroenterprise development.

[Updated May 24, 2019]

❖ 11 Steps to a Whole-Farm Plan

<https://www.agriculture.com/farm-management/business-planning/11-steps-to-a-whole-farm-plan>

This webpage provides a guide in helping farmers create a whole-farm business plan to avoid failures in case of machine breakdown.

[Updated May 24, 2019]

❖ Agriculture Finance

https://www.ifc.org/wps/wcm/connect/Industry_EXT_Content/IFC_External_Corporate_Site/Industries/Financial+Markets/Retail+Finance/Agriculture+Finance/

This webpage aims to foster a measureable increase in the availability of agriculture finance by promoting appropriate risk mitigation products and building necessary skills in handling agricultural finances.

[Updated May 24, 2019]

❖ Fruit and Vegetable Marketing for Small-Scale and Part-Time Growers

<https://extension.psu.edu/fruit-and-vegetable-marketing-for-small-scale-and-part-time-growers>

This webpage aims to provide strategies for small-scale farmers in marketing their products to consumers in the best possible way.

[Updated May 24, 2019]

Agroentrepreneurship NC III

This qualification consists of competencies that a person must achieve to engage agroenterprise (AE) industry stakeholders, ensure product supply, implement financial management, mobilize farmer's participation in capacity building activities and conduct collective marketing.

Basic Competencies:

- Lead Workplace Communication
- Lead small teams
- Develop and Practice Negotiation Skills
- Solve Problems Related to Work Activities
- Use Mathematical Concepts and Techniques
- Use Relevant Technologies

Common Competencies:

- Apply Safety Measures in Farm Operations
- Perform Estimation and Basic Calculation
- Provide Quality Customer Service
- Comply with Quality and Ethical Standards

Core Competencies:

❖ Lead Workplace Communication

<https://www.coursehero.com/file/14771162/Lead-Workplace-Communication/>

This webpage provides information on the topic to lead workplace communication. It also includes links to related topics.

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<https://www.fastcompany.com/3047244/10-steps-to-lead-a-small-but-effective-team>

This webpage provides tips on how to lead a small but effective team including a video on 7 Steps to Building a Dream Team for Your Company.

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This webpage provides tips on how to effectively solve problems in the workplace with links to related topics.

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❖ Chapter 2: Basic Mathematical Concepts and Methods

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This webpage provides information in using technology for the agricultural industry. It also contains links and pictures related to the topic.

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This webpage from slideshare provides a slide show to practice

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- Engage agroenterprise (AE) industry stakeholders
- Ensure product supply
- Implement financial management
- Mobilize farmers participation in capacity building activities
- Conduct collective marketing

occupational safety and health procedures with transcript.

[Retrieved January 3, 2019]

❖ Farm Implements and Safety practices in using farm tools and equipment

<https://www.slideshare.net/RochelleNato/farm-implements-and-safety-practices-in-using-farm-tools-and-equipment>

This webpage provides downloadable information on farm implements and safety practices in using farm tools and equipment.

[Retrieved January 3, 2019]

❖ Lesson 1 Use of Farm Tools and Equipment

<https://www.slideshare.net/RochelleNato/lesson-1-use-of-farm-tools-and-equipment>

This webpage provides downloadable information on the use of farm tools and equipment.

[Retrieved January 3, 2019]

❖ Perform Estimation and Basic Calculation

<https://prezi.com/muel0ryjurvp/perform-estimation-and-basic-calculation/>

This webpage provides a Prezi presentation to perform estimation and basic calculation that also includes full transcript of the topic.

[Retrieved January 3, 2019]

❖ Industrial Waste Processing and Recovery

<http://www.rgrecycling.co.uk/pages/industries/agricultural-waste-recycling>

This webpage provides information in modern agricultural waste processing, separation and sorting, and agricultural recycling equipment with links to related topics.

[Retrieved January 3, 2019]

❖ How to Keep Farm Records

<https://www.thespruce.com/how-to-keep-farm-records-3016896>

This webpage provides information in the importance of keeping farm records with links to related topics.

[Retrieved January 3, 2019]

❖ Stakeholder Engagement in Agriculture – A Success Story

<https://standingpartnership.com/stakeholder-engagement-in-agriculture-a-success-story/>

This webpage presents a success story that shows how to build and maintain a result-focused stakeholder engagement.

[Updated May 24, 2019]

❖ Manage Your Suppliers

<https://www.infoentrepreneurs.org/en/guides/manage-your-suppliers/>

This webpage provides a guide in managing suppliers to get the best quality service.

[Updated May 24, 2019]

❖ Farm and Financial Management

<https://www.arec.umd.edu/extension/ume-programs/farm-and-financial-management>

This webpage provides a guide in improving business management skills to improve management productivity, increased profitability, and fulfill long-term goals of farmers.

[Updated May 24, 2019]

Agroentrepreneurship NC IV

This Qualification consists of competencies that a person must achieve to assess market opportunities, establish farm production plan, handle

❖ Utilize specialist communication skills to build strong relationships

<https://etraining.communitydoor.org.au/course/view.php?id=2>

This webpage presents a course with 4 sections on specialized communication skills. It also includes quizzes and a summary of topics.

[Retrieved January 4, 2019]

❖ Developing Your Team

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finances, and market produce.

Basic Competencies

- Utilize specialized communication skills
- Develop teams and individuals
- Apply problem solving techniques in the workplace
- Collect, analyze and organize information
- Plan and organize work
- Promote environmental protection

Common Competencies

- Apply Safety Measures in Farm Operations
- Perform Estimation and Basic Calculation
- Provide Quality Customer Service
- Comply with Quality and Ethical Standards

Core Competencies

- Capacitate farmers
- Facilitate engagement of the agroenterprise activities
- Mobilize Agroenterprise Community
- Monitor and Evaluate Agroenterprise Activities

<https://www.mindtools.com/pages/article/developing-your-team.htm>

This webpage provides information to help develop teams and individuals in a team. It also includes links to related topics.

[Retrieved January 4, 2019]

❖ Problem Solving Skills Training & the Workplace

<https://smallbusiness.chron.com/problem-solving-skills-training-workplace-11656.html>

This webpage provides tips in solving workplace-related problems.

[Retrieved January 4, 2019]

❖ Collect, Organize, Analyze and Critically Evaluate Information

<http://mindmuttermatters.blogspot.com/2017/03/collect-organise-analyse-and-critically.html>

This webpage provides information about personal leadership skill in collecting, organizing, analyzing and critically evaluating information.

[Retrieved January 4, 2019]

❖ How to Plan & Organize Work Activities

<https://smallbusiness.chron.com/plan-organize-work-activities-10000.html>

This webpage provides tips and suggestions on how to manage work activities for specific tasks.

[Retrieved January 4, 2019]

❖ Promoting Environmental Protection

http://tw.tzuchi.org/en/index.php?option=com_content&view=article&id=670%3Apromoting-environmental-protection-&catid=62%3Aenvironmentalprotection&Itemid=186&lang=en

This webpage provides a guide and related information on promoting protection for the environment with links to related topics.

[Retrieved January 4, 2019]

❖ Practice Occupational Safety and Health Procedures

<https://www.slideshare.net/MaryjoyElynethDuguran/practice-occupational-safety-and-health-procedures>

This webpage from slideshare provides a slide show to practice occupational safety and health procedures with transcript.

[Retrieved January 3, 2019]

❖ Farm Implements and Safety practices in using farm tools and equipment

<https://www.slideshare.net/RochelleNato/farm-implements-and-safety-practices-in-using-farm-tools-and-equipment>

This webpage provides downloadable information on farm implements and safety practices in using farm tools and equipment.

[Retrieved January 3, 2019]

❖ Lesson 1 Use of Farm Tools and Equipment

<https://www.slideshare.net/RochelleNato/lesson-1-use-of-farm-tools-and-equipment>

This webpage provides downloadable information on the use of farm tools and equipment.

[Retrieved January 3, 2019]

❖ Perform Estimation and Basic Calculation

<https://prezi.com/muel0ryjurvp/perform-estimation-and-basic-calculation/>

This webpage provides a Prezi presentation to perform estimation and basic calculation that also includes full transcript of the topic.

[Retrieved January 3, 2019]

❖ Industrial Waste Processing and Recovery

<http://www.rgrecycling.co.uk/pages/industries/agricultural-waste-recycling>

This webpage provides information in modern agricultural waste processing, separation and sorting, and agricultural recycling equipment with links to related topics.

[Retrieved January 3, 2019]

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<p>Animal Health Care and Management NC III</p> <p>This qualification consists of competencies that a person must achieve in providing livestock health care in both backyard and commercial livestock farms under the supervision of a veterinarian.</p> <p>Core Competencies</p> <ul style="list-style-type: none"> • Restrain and handle animal • Apply bio-security measures • Administer drugs and biologics • Handle and store drugs and biologics • Collect and handle specimen 	<p>❖ How to Keep Farm Records https://www.thespruce.com/how-to-keep-farm-records-3016896 This webpage provides information in the importance of keeping farm records with links to related topics. [Retrieved January 3, 2019]</p> <p>❖ Improving Capacity for Small Farmers and their Service Providers https://www.agrilinks.org/blog/improving-capacity-small-farmers-and-their-service-providers This webpage provides a guide in uplifting the capacity of farmer's organization and the society to manage affairs successfully to achieve goals and to satisfy the rights or expectations of citizen, customers and other stakeholders. [Updated May 24, 2019]</p> <p>❖ How collective bargaining can benefit farmers and small businesses https://www.accc.gov.au/media-release/how-collective-bargaining-can-benefit-farmers-and-small-businesses This webpage provides a guide in engaging in collective bargaining agreement to allow two or more competing businesses to jointly negotiate with a supplier or customer over terms, conditions, and prices. [Updated May 24, 2019]</p>
<p>Animal Health Care and Management NC III</p> <p>This qualification consists of competencies that a person must achieve in providing livestock health care in both backyard and commercial livestock farms under the supervision of a veterinarian.</p> <p>Core Competencies</p> <ul style="list-style-type: none"> • Restrain and handle animal • Apply bio-security measures • Administer drugs and biologics • Handle and store drugs and biologics • Collect and handle specimen 	<p>❖ Animal care and management at the national zoo http://www.nap.edu/catalog.php?record_id=10932 This webpage provides a free online catalog that assesses issues related to animal management, husbandry and health care. The treat issue was on the Shortcomings of care and management of animals. [Updated May 24, 2019]</p> <p>❖ Diseases situation in swine in the Philippines - an unfolding situation http://www.fao.org/ag/againfo/programmes/en/empres/ebola_111208.html This webpage shows studies of different agencies on the situation that the virus, known as primate pathogen, is identified in a food producing animal, affecting the swine production areas in the Philippines. [Updated May 24, 2019]</p> <p>❖ A manual for primary animal health care worker: FAO/ACP http://www.fao.org/docrep/T0690E/t0690e03.htm#TopOfP This webpage provides ten(10) chapters of web document; a prepared training plan on each chapter. [Updated May 24, 2019]</p>
<p>Animal Production (Ruminants) NC II</p> <p>This qualification consists of competencies that a person must achieve to raise ruminants for production of milk, meat and breeder. It comprises of maintenance of housing, farm implements and surrounding area, providing forage, performing breeding of ruminants, raising of dairy animals and raising of meat-type animals. The ruminants include both the large (cattle and buffalo) and small (goat and sheep) ruminants.</p> <p>Core Competencies</p> <ul style="list-style-type: none"> • Maintain housing, farm 	<p>❖ Animal production and marketing issues and policy http://animalbiosciences.uoguelph.ca/~gking/Ag_2350/animprod.htm This webpage provides information on animal production systems. [Retrieved May 24, 2019]</p> <p>❖ Integrated animal production system in Asia http://www.fao.org/docrep/W8600T/w8600t02.htm This webpage pertains to problem-based learning approach to develop skill/knowledge in the design and management of efficient animal production system. [Retrieved May 24, 2019]</p> <p>❖ Mixed farming and intensification of animal production https://journals.sagepub.com/doi/abs/10.1177/003072709702600407 This searchable site for mixed farming includes links to economic importance of animals; genesis of crop-animal systems, types of mixed farming, and the relevance of integrated systems. [Retrieved May 24, 2019]</p>

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<p>implements and surrounding area</p> <ul style="list-style-type: none"> • Provide forage • Perform breeding of ruminants • Raise dairy animals • Raise meat-type animals 	<ul style="list-style-type: none"> ❖ PEW Commission on industrial farm animal production http://www.ncifap.org/ This webpage contains selected articles on the issues on the aspects of farm animal production industry. [Retrieved May 24, 2019] ❖ Putting meat on the table industrial farm animal production in America https://www.pewtrusts.org/~media/assets/2008/pcifap_exec-summary.pdf This report provides background analysis on industrial hog farming and the transmission of swine flu. [Retrieved May 24, 2019]
<p>Animal Production (Swine) NC II</p> <p>This qualification consists of competencies that a person must achieve to handle breeders, handle farrowing sows and sucklings, raise weanlings, produce finishers, maintain healthy animal environment and apply biosecurity measures.</p> <p>Core Competencies</p> <ul style="list-style-type: none"> • Handle breeders • Handle farrowing sows and sucklings • Raise weanlings • Produce finishers • Maintain healthy animal environment • Apply bio-security measures 	<ul style="list-style-type: none"> ❖ Breeding Pigs https://www.nda.agric.za/docs/pigs1/breeding.htm This webpage provides information in breeding pigs, including selection of boar and gilt (sow). [Retrieved January 4, 2019] ❖ Managing the Sow for Optimum Productivity https://projects.ncsu.edu/project/swine_extension/healthyhogs/book2000/se_e.htm This webpage provides information in managing sows to produce the best quality breeds. [Retrieved January 4, 2019] ❖ How we Raise Pigs http://toshfarms.net/animal-care/how-we-raise-pigs/ This webpage provides information in raising pigs using modern methods of breeding. [Retrieved January 4, 2019] ❖ Keeping Animals Healthy https://extension.psu.edu/keeping-animals-healthy This webpage provides information in promoting animal health for maximum productivity. [Retrieved January 4, 2019] ❖ Local applications of the national livestock & poultry environmental stewardship curriculum http://digitalcommons.unl.edu/cgi/viewcontent.cgi?article=1009&context=biosysengpres This paper presentation focuses in the areas of animal nutrition, manure storage and treatment, land application and nutrient management & air quality. [Updated May 24, 2019] ❖ Mixed farming and intensification of animal production systems http://www.fao.org/wairdocs/ilri/x5462e/x5462e0i.htm This webpage pertains to the types of mixed farming and importance intensive crop–animal production system. [Updated May 24, 2019]
<p>Aquaculture NC II</p> <p>This qualification consists of competencies that a person must achieve to assist in aquaculture operations, prepare and maintain aquaculture facilities, operate fish nursery, perform fish or shrimp grow-out operations and grow seaweeds.</p> <p>Core Competencies</p>	<ul style="list-style-type: none"> ❖ Aquaculture: the free dictionary Wikipedia http://encyclopedia2.thefreedictionary.com/aquaculture The webpage is an open access and searchable site on the related topics. [Updated May 24, 2019] ❖ Aquaculture Systems http://www.tilapia-farming.com/aquaculture-systems/ This webpage provides information on resources that describe different aquaculture systems. [Updated May 24, 2019]

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- Conduct pre-operations aquaculture activities
- Prepare and maintain aquaculture facilities
- Operate fish nursery
- Perform fish or shrimp grow-out operations

❖ Aquaculture tilapia fish farming

<http://www.youtube.com/watch?v=9IEy2tW1Rzs>

This webpage provides an eight (8) minute video showing tilapia fish farming in action.

[Updated May 24, 2019]

❖ Aquaculture farming

<http://www.eattilapia.com/operations/tilapia-farming/>

This webpage provides information about the operation of aquaculture farm raising tilapia as its main product.

[Updated May 24, 2019]

❖ Demonstration of air-lift pump & lignocellulosics in recirculation aquaculture systems

<https://p2infohouse.org/ref/40/39363.pdf>

This is a project document on the growth of the industry which demonstrates the energy efficiency in the use of air-lift pumps over conventional electrical pumps.

[Updated May 24, 2019]

❖ Native freshwater fish and crayfish-extensive aquaculture

<http://www.dpi.nsw.gov.au/fisheries/aquaculture/publications/species-freshwater/native-freshwater-fish-and-crayfish---extensive-aquaculture-prospects>

This webpage provides information on the two (2) forms of culture in relation to fish farming: the intensive and the extensive; the advantages/disadvantages of each other.

[Updated May 24, 2019]

❖ Pond aquaculture system filter-advanced systems

<http://www.advancedaquaculture.com>

This site provides information and procedures in designing intensive recirculating aquaculture systems.

[Updated May 24, 2019]

Artificial Insemination (Large Ruminants) NC II

This qualification consists of competencies that a person must achieve to establish readiness for artificial insemination, prepare for artificial insemination (AI) operation, perform artificial insemination (AI) and prepare artificial insemination (AI) documentations and reports. It has an elective competency to conduct artificial insemination awareness for clientele.

Core Competencies

- Establish readiness for artificial insemination
- Prepare for artificial insemination (AI) operation
- Perform artificial insemination (AI)
- Prepare artificial insemination (AI) documentations and reports

Elective Competency

- Conduct artificial insemination awareness for clientele

❖ Artificial Insemination for Beef Cattle

<http://www.thebeefsite.com/articles/721/artificial-insemination-for-beef-cattle/>

This webpage provides information on the basics of artificial insemination (AI) programs to manage its application to animals.

[Retrieved January 7, 2019]

❖ DA Pushes Artificial Insemination

<https://www.philstar.com/business/agriculture/2003/07/13/213496/da-pushes-artificial-insemination>

This webpage from Philstar global provides information on the Department of Agriculture's support for artificial insemination in breeding livestock in the country.

[Retrieved January 7, 2019]

❖ Artificial Insemination Technique

<https://extension.psu.edu/artificial-insemination-technique>

This webpage provides a review for those already familiar with artificial insemination technique, emphasizing reproductive anatomy, sanitation, and accuracy of semen deposition.

[Retrieved January 7, 2019]

❖ Small-Scale Dairy Farming Manual Volume 4

http://www.fao.org/ag/againfo/resources/documents/Dairyman/Dairy/V4U6_1.htm

This webpage provides illustrated content with explanations on how artificial insemination is performed on large ruminants.

[Retrieved January 7, 2019]

❖ Analytical Documentation of the Artificial Insemination Programme of BRAC

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	<p>http://research.brac.net/reports/ai_analytical_documentation.pdf This weblink provides a downloadable document in PDF that shows the documentation of AI in a Research Report format. [Retrieved January 7, 2019]</p>
<p>Artificial Insemination (Swine) NC II</p> <p>This qualification consists of competencies that a person must achieve to confirm readiness of sow/gilt for artificial insemination, collect boar semen, perform artificial insemination (AI) on sow/gilt and prepare documentations and reports on sow/gilt artificial insemination (AI). It has an elective competency to conduct community awareness program on artificial insemination and render assistance to veterinary procedures related to reproductive problems.</p> <p>Core Competencies</p> <ul style="list-style-type: none"> • Confirm readiness of sow/gilt for artificial insemination • Collect boar semen • Perform artificial insemination (AI) on sow/gilt • Prepare documentations and reports on sow/gilt artificial insemination (AI) activities <p>Elective Competencies</p> <ul style="list-style-type: none"> • Conduct community awareness program in artificial insemination • Render assistance to veterinary procedures related to reproductive problems 	<p>❖ Using Artificial Insemination in Swine Production: Detecting and Synchronizing Estrus and Using Proper Insemination Technique https://pubs.ext.vt.edu/414/414-038/414-038.html This webpage provides information on how AI is implemented in swine production using proper insemination technique. [Retrieved January 7, 2019]</p> <p>❖ A Guide to Basic Boar Semen Collection, Evaluation and Processing Procedures http://www.ansc.purdue.edu/swine/porkpage/repro/pubs/basic2.htm This webpage provides a guide on how to collect semen from boars using various methods. [Retrieved January 7, 2019]</p> <p>❖ Artificial Insemination Technique http://www.thepigsite.com/focus/pic/3418/artificial-insemination-insemination-technique This webpage provides a guide on how to perform artificial insemination on sow. It also includes links to related topics. [Retrieved January 7, 2019]</p> <p>❖ Artificial Insemination in Pigs https://www.intechopen.com/books/artificial-insemination-in-farm-animals/artificial-insemination-in-pigs This webpage provides a documentation summary for artificial insemination in pigs. [Retrieved January 7, 2019]</p> <p>❖ Animal Environment, Housing and Management https://www.nap.edu/read/5140/chapter/4 This webpage provides information on the proper housing and management of animals that is essential to their well-being, research and testing programs. [Retrieved January 7, 2019]</p>
<p>Bamboo Production NC II</p> <p>This qualification consists of competencies that bamboo farmer, or bamboo nursery operator to operate bamboo nursery, establish bamboo farm, conduct bamboo clump rehabilitation and conduct harvesting and post-harvesting operations. It also includes competencies in practicing safety measures, operating simple equipment and using various tools for (small scale to large scale) bamboo farmer and bamboo farm owner.</p> <p>Core Competencies</p> <ul style="list-style-type: none"> • Operate bamboo nursery • Establish bamboo farm • Conduct bamboo clump rehabilitation • Conduct harvesting and post-harvesting operations 	<p>❖ How to Start a Profitable Bamboo Nursery https://www.profitableplantsdigest.com/how-to-start-a-profitable-bamboo-nursery/ This webpage provides information how to start a bamboo nursery. [Retrieved January 7, 2019]</p> <p>❖ How to Start a Bamboo Farm https://www.onlymoso.com/start-bamboo-farm/ This webpage provides a guide on how to start a bamboo farm. [Retrieved January 7, 2019]</p> <p>❖ Why You Should Ask a Bamboo Farmer What It Takes to Succeed https://www.entrepreneur.com/article/240371 This webpage provides information about the advantages of bamboo and how to nurture the plant. [Retrieved January 7, 2019]</p> <p>❖ Rehabilitation of Critical Riverbanks Using Bamboo and Vetiver https://www.entrepreneur.com/article/240371 This webpage provides information on how to rehabilitate river banks using bamboo clumps to hold the soil and prevent erosion.</p>

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<p style="text-align: center; margin: 0;">Drying and Milling Processing Plant Servicing NC III</p> <p style="font-size: small; margin: 5px 0;">This qualification consists of competencies that a Drying and Milling Plant Service Technician must have in order to service grains drying plant facilities, service rice milling plant facility and service corn milling plant facility.</p> <p style="font-size: small; margin: 5px 0;">Core Competencies</p> <ul style="list-style-type: none"> Service grains drying plant facilities Service rice milling plant facility Service corn milling plant facility 	<p style="font-size: x-small; margin: 0;">[Retrieved January 7, 2019]</p> <p style="margin: 5px 0;">❖ Designing and Evaluating Bamboo Harvesting Methods for Local Needs: Integrating Local Ecological Knowledge and Science</p> <p style="font-size: small; margin: 0;">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4930467/</p> <p style="font-size: x-small; margin: 0;">This webpage provides information on how to design harvesting methods to maximize yield and ensure sustainability of bamboo.</p> <p style="font-size: x-small; margin: 0;">[Retrieved January 7, 2019]</p>
<p style="text-align: center; margin: 0;">Fish Capture NC I</p> <p style="font-size: small; margin: 5px 0;">This qualification consists of competencies that a person must achieve to catch and deliver seafood products. Workers at his level would have no previous experience in this industry sector. Work would be routine and carried out under close supervision</p> <p style="font-size: small; margin: 5px 0;">Core Competencies</p> <ul style="list-style-type: none"> Apply deckhand skills aboard a fishing vessel Load and unload goods / cargo Assemble and repair damaged netting 	<p style="margin: 5px 0;">❖ Drying Solutions</p> <p style="font-size: small; margin: 0;">https://www.cofcoge.com/solution/drying-solutions/10.html?gclid=EAlalQobChMIII2w3dra3wIVTqaWCh0SrQ3QEAAYAiAAEgJqDvD_BwE</p> <p style="font-size: x-small; margin: 0;">This webpage from COFCO provides information on their drying solutions for grains and other products.</p> <p style="font-size: x-small; margin: 0;">[Retrieved January 7, 2019]</p> <p style="margin: 5px 0;">❖ Processing maize flour and corn meal food products</p> <p style="font-size: small; margin: 0;">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4260129/</p> <p style="font-size: x-small; margin: 0;">This webpage provides information on corn and methods of processing corn flour and corn meal products.</p> <p style="font-size: x-small; margin: 0;">[Retrieved January 7, 2019]</p> <p style="margin: 5px 0;">❖ General Troubleshooting Manual</p> <p style="font-size: small; margin: 0;">http://www.gtmfg.com/manuals/TROUBLE_SHOOTING_MANUAL.pdf</p> <p style="font-size: x-small; margin: 0;">This weblink provides a downloadable troubleshooting manual for various grain dryer models.</p> <p style="font-size: x-small; margin: 0;">[Retrieved January 7, 2019]</p> <p style="margin: 5px 0;">❖ Grain Dryer Pre-Season Maintenance Checklist-GT MFG, Inc.</p> <p style="font-size: small; margin: 0;">http://www.gtmfg.com/manuals/PRESEASON_MAINTENANCE_CHECKLIST.pdf</p> <p style="font-size: x-small; margin: 0;">This weblink provides a downloadable maintenance checklist for GT grain dryer model.</p> <p style="font-size: x-small; margin: 0;">[Retrieved January 7, 2019]</p>
<p style="text-align: center; margin: 0;">Fish Capture NC I</p> <p style="font-size: small; margin: 5px 0;">This qualification consists of competencies that a person must achieve to catch and deliver seafood products. Workers at his level would have no previous experience in this industry sector. Work would be routine and carried out under close supervision</p> <p style="font-size: small; margin: 5px 0;">Core Competencies</p> <ul style="list-style-type: none"> Apply deckhand skills aboard a fishing vessel Load and unload goods / cargo Assemble and repair damaged netting 	<p style="margin: 5px 0;">❖ Fish capture in the Philippines</p> <p style="font-size: small; margin: 0;">http://www.courses.com.ph/fish-capture-nc-i-in-the-philippines/</p> <p style="font-size: x-small; margin: 0;">This webpage from courses.com describes the training courses offered in the Philippines based on the training regulations developed by TESDA.</p> <p style="font-size: x-small; margin: 0;">[Updated May 25, 2019]</p> <p style="margin: 5px 0;">❖ National aquaculture sector overview Philippines</p> <p style="font-size: small; margin: 0;">http://www.fao.org/fishery/countrysector/naso_philippines/en</p> <p style="font-size: x-small; margin: 0;">This webpage from fao.org provides information on the characteristics, structure and resources of the sector with the following sections: summary; history and general overview; human resources; farming systems distribution and characteristics; cultured species; practices/ systems of culture; production; market and trade; contribution to the economy; the institutional framework; the governing regulations; applied research, education and training; bibliography; and related links.</p> <p style="font-size: x-small; margin: 0;">[Updated May 25, 2019]</p> <p style="margin: 5px 0;">❖ Marine fishing in the Philippines</p> <p style="font-size: small; margin: 0;">http://www.culturalsurvival.org/ourpublications/csq/article/marine-fishing-philippines</p> <p style="font-size: x-small; margin: 0;">This webpage from culturalsurvival.org describes the situation of a common fish farmer in small-scale fishing in the country.</p> <p style="font-size: x-small; margin: 0;">[Updated May 25, 2019]</p> <p style="margin: 5px 0;">❖ Fish capture in the Philippines</p> <p style="font-size: small; margin: 0;">http://oneocean.org/fishweb/fisheries_profile_part2.html</p> <p style="font-size: x-small; margin: 0;">This webpage from oneocean.com provides the marine capture fisheries profile in the Philippines updated on December 2002.</p>

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	<p>[Updated May 25, 2019]</p> <p>❖ The killing of Nemo http://killingnemo.weebly.com/ This webpage from killingnemo.weebly.com describes the effects of cyanide fishing to the environment. [Updated May 25, 2019]</p>
<p>Fish Capture NC II</p> <p>This qualification consists of competencies that a person must achieve to enable him to catch and deliver seafood products. Workers at this level would be directly engaged in fishing and other related fishing activities in inland bodies of waters and marine waters within 15kilometers from the coastline (and other provisions for municipal waters) using fishing vessels of three (3) gross tons or less.</p> <p>Core Competencies</p> <ul style="list-style-type: none"> • Operate a vessel of up to 3.0 GT • Monitor condition and seaworthiness of a vessel • Perform routine maintenance tasks on a small coastal vessel • Operate and troubleshoot low powered marine engines • Apply weather information when navigating a vessel • Contribute to safe navigation • Apply basic food handling and safety practices 	<p>❖ Commercial Fishing https://www.bfar.da.gov.ph/services?id=155 This webpage provides the general provision for the operation of fishing vessels in the Philippines. [Retrieved January 7, 2019]</p> <p>❖ Local Government Guide to Registration of Fishing Boats 3GT and Below http://oneocean.org/download/db_files/eo305pamphlet.pdf This webpage provides a general guide for the registration of fishing boats in the Philippines. [Retrieved January 7, 2019]</p> <p>❖ Local Government Guide to Registration of Fishing Boats 3GT and Below http://oneocean.org/download/db_files/eo305pamphlet.pdf This webpage provides a general guide for the registration of fishing boats in the Philippines. [Retrieved January 7, 2019]</p> <p>❖ Vessel monitoring promotes transparency in fishing-group https://businessmirror.com.ph/vessel-monitoring-promotes-transparency-in-fishing-group/ This webpage provides information on monitoring of fishing vessels in the Philippines. [Retrieved January 7, 2019]</p> <p>❖ Safe Maintenance of Fishing Vessels https://osha.europa.eu/en/tools-and-publications/publications/e-facts/efact55 This webpage provides a downloadable PDF that provides the guidelines in maintaining fishing vessels. [Retrieved January 7, 2019]</p> <p>❖ A guide to Australia’s marine forecasts and warnings https://sielearning.tafensw.edu.au/toolboxes/MaritimeOperations/TDMMH701AWeatherInformation/Tools/2_01.htm This webpage provides information and guide to fishing vessel navigators on weather services. [Retrieved January 7, 2019]</p> <p>❖ Fish Handling, Quality and Processing: Training and Community Trainers Manual http://www.fao.org/3/a-az083e.pdf This weblink provides a downloadable guide in fish handling, processing and training. [Retrieved January 7, 2019]</p>
<p>Fishing Gear Repair and Maintenance NC III</p> <p>This qualification consists of competencies that a person must achieve in leading a team of net menders. Specifically, it involves competencies in making decision in carrying out repair and maintenance of</p>	<p>❖ Change in gas bubble disease signs and survival of migrating juvenile salmonids http://pisces.bpa.gov/release/documents/documentviewer.aspx?doc=93892-1 This webpage provides an annual report on the experimental studies on the changes in gas bubble diseases. [Updated May 25, 2019]</p> <p>❖ Fishing reel maintenance and upgrades, reel repair, reel tuning</p>

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nets. Non-repairable fishing gears like hook and line are not included in this Training Regulations (TR). The TR also does not include pots and traps, another type of fishing gear, since it is used and repaired by subsistence fisher folks themselves.

Core Competencies

- Supervise unloading and loading of net
- Evaluate net mending
- Administer and monitor net mending

<http://www.tackletour.com/menumaintenance.html>

This webpage provides information and procedures in maintaining and upgrading types of tools, equipment and materials for fishing industry.
[Updated May 25, 2019]

❖ Marine and coastal fisheries: dynamic management, and ecosystem science

<http://www.bioone.org/doi/abs/10.1577/C08-006.1>

This webpage provides an online full text article published by American fisheries society about marine and coastal fisheries.
[Updated May 25, 2019]

❖ Principles of fishing gear

<http://www.kabayancentral.com/book/rex/mb2327817.html>

This webpage provides the needs of trainees in fisheries, such as fishing gear design; materials selection, testing, methods of fishing gear construction; operation, maintenance and repair.
[Updated May 25, 2019]

Fish Port Wharf Operations NC I

This qualification consists of competencies that a person must achieve to perform handling of fish and fish products in fishport/wharf. Persons with this qualification may or may not have previous experience in these skills. Work would be routine and carried out under close supervision.

Core Competencies

- Unload and load fish and fish products
- Classify fish and fish products

❖ Maintenance of port infrastructure in Malaysia

<http://www.scribd.com/doc/12505032/Maintenance-of-Port-Infrastructure-Malaysian-Port-Authorities>

This webpage contains PowerPoint presentation of the process of maintenance port infrastructures and complying the legal and standard system procedures.
[Updated May 25, 2019]

❖ Time-motion analysis of wharf crane operations

<http://pubsindex.trb.org/document/view/default.asp?lbid=378412>

This webpage provides a research study on Transportation Research Board, with accession number 00634484.
[Updated May 25, 2019]

❖ Classification of fish culture on the basis of number of species

<http://vikaspedia.in/agriculture/fisheries/fish-production/culture-fisheries/types-of-aquaculture/classification-of-fish-culture-on-the-basis-of-number-of-species>

This webpage provides information on different methods of classifying fish by number of species.
[Updated May 25, 2019]

❖ Common Name – Fish and Fish Products

<http://www.inspection.gc.ca/food/requirements/labelling/industry/fish-and-fish-products/eng/1393709636463/1393709677546?chap=2>

This webpage provides information on classifying and labeling fish by their common names and the location where harvested.
[Updated May 25, 2019]

Horticulture NC III

This qualification consists of competencies that a person must achieve in managing small farm. Specifically it involves competencies in making decision and carrying out competencies in relation to establishment, maintenance and harvesting of horticultural crops such as vegetables, fruits and cut flowers. Workers at this level would be working autonomously and likely to own a small enterprise or work within a cooperative structure.

❖ Profitable Plants

<https://www.profitableplants.com/8-most-profitable-plants-to-grow/>

This webpage suggests 8 profitable plants to grow and you're your gardening skills into serious cash.
[Retrieved June 6, 2019]

❖ Sustainable Agriculture in the Philippines

https://www.tandfonline.com/doi/abs/10.1300/J064v31n03_08

This webpage provides information on what farmers in the Philippines are doing in order to provide sustainable agriculture using well-thought techniques in farming.
[Retrieved June 6, 2019]

❖ Cut flower production in the Philippines

<http://www.fao.org/docrep/005/ac452e/ac452e07.htm>

This webpage from fac.org describes the ornamental horticulture industry based on its experience from the 1970's and how it progressed to the

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Core Competencies

- Prepare land for agricultural crop production
- Implement post-harvest program
- Implement plant nutrition program
- Control weeds
- Prepare and apply chemicals
- Establish horticultural crops
- Coordinate horticultural maintenance program
- Coordinate horticultural crop harvesting
- Undertake field budding and grafting
- Undertake propagation activities

present. A table of major producers of cut flowers in the Philippines is also included.

[Retrieved June 6, 2019]

❖ Horticulturist

<http://www.ble.dole.gov.ph/index.php/horticulturist>

This webpage provides information on employment requirements and rates of horticulturists here and abroad.

[Retrieved June 6, 2019]

❖ Grafting and Budding Nursery Crop Plants

<https://content.ces.ncsu.edu/grafting-and-budding-nursery-crop-plants>

This webpage provides information and guide on budding and grafting of nursery crop plants.

[Updated June 6, 2019]

❖ Propagation Methods of Selected Horticultural Crops by Specialized Organs: Review

<https://www.omicsonline.org/open-access/propagation-methods-of-selected-horticultural-crops-by-specializedorgans-review-2376-0354-1000198.php?aid=89042&view=mobile>

This webpage provides information about the horticultural propagation methods implemented in Ethiopia.

[Updated June 6, 2019]

❖ Sustainable fertilization management of croplands: the Philippines scenario*

<http://www.fao.org/3/ag120e/AG120E16.htm>

This webpage provides information on a study conducted in the Philippines to change the paradigm of agriculture from being the production – income oriented to sustainable production-human cum-environment health oriented agriculture.

[Retrieved June 6, 2019]

Landscape Installation and Maintenance (Softscape) NC II

This qualification consists of competencies that a person must achieve in installing and maintaining landscape designs for all types of development projects including residential, commercial, industrial, institutional and open space areas. It also includes competency in growing plants and trees with a goal of creating beautiful and environmentally healthy landscapes. Workers at this level will be working under the supervision of landscape supervisor / manager.

Core Competencies Installation/ Construction

- Provide site clearing and grubbing activities
- Perform rough grading operations
- Perform site preparation activities
- Install plants at designated locations as designed

❖ Landscaping Maintenance

<https://www.tpctraining.com/products/landscaping-maintenance>

This webpage covers the major features of landscaping maintenance, from the basics of how plants develop to recognizing diseases and parasites. This online course details the selection and care of trees, ground covers, flowers, and grasses. Landscaping Maintenance is available in course manual format.

[Updated June 6, 2019]

❖ Bay-friendly landscaping & gardening coalition

<https://ecologycenter.org/directory/directory-entries/bay-friendly-landscaping-gardening-coalition/>

This webpage offers a training program for two tracks: Maintenance Training for Existing Landscapes and Design Training for New Landscapes. Both provide a comprehensive education in the Bay-Friendly approach and are taught by industry experts in storm water management, water conservation and irrigation, plant selection and care, soil health, and more.

[Updated June 6, 2019]

❖ Landscape Management Degree and Certificate Program Information

http://education-portal.com/articles/Landscape_Management_Degree_and_Certificate_Program_Information.html

“Individuals who are interested in landscape management can get career training through associate's and bachelor's degree as well as certificate programs. Read on to learn about required courses, career options and opportunities for professional certification from this webpage.”

[Updated June 6, 2019]

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- Install plant supports
- ### Maintenance
- Trim and prune landscape plants
 - Perform weeding and cultivation
 - Apply fertilizer (Nutrition)
 - Water/Irrigate plants
 - Control and prevent plant pest and diseases
 - Provide plant support
 - Perform lawn grass maintenance
 - Perform re-planting activities
 - Collect, dispose and utilize organic waste

❖ Land Clearing and Grubbing; Part of the Site Development Process

<http://cncsitedevelopment.com/land-clearing-and-grubbing/>

This webpage provides information on clearing and cleaning land for landscaping.

[Retrieved June 6, 2019]

❖ Rough & Finish Grading

<https://www.rrelandscaping.com/rough-finish-grading/>

This webpage provides information on rough and finish grading of land for a construction project.

[Retrieved June 6, 2019]

❖ Site Preparation Process; the step by step

<http://cncsitedevelopment.com/site-preparation-process/>

This webpage provides information on site preparation procedures for a construction project including site clearing and site investigation.

[Retrieved June 6, 2019]

❖ The ultimate guide to living green walls

<https://www.ambius.com/green-walls/ultimate-guide-to-living-green-walls/>

This webpage provides a guide on designing and installing wall gardens to provide additional comfort to the occupants and visitors of the building.

[Retrieved June 6, 2019]

❖ Types of Support: When and How to Support Garden Plants

<https://www.gardeningknowhow.com/garden-how-to/info/supports-for-garden-plants.htm>

This webpage provides a guide on supporting ornamental or garden plants using different materials and methods.

[Retrieved June 6, 2019]

❖ Types of Support: When and How to Support Garden Plants

<https://www.gardeningknowhow.com/garden-how-to/info/supports-for-garden-plants.htm>

This webpage provides a guide on supporting ornamental or garden plants using different materials and methods.

[Retrieved June 6, 2019]

❖ Pruning Ornamental Plants in the Landscape

<https://extension.uga.edu/publications/detail.html?number=B961&title=Pruning%20Ornamental%20Plants%20in%20the%20Landscape>

This webpage provides a guide on pruning ornamental plants using tools, techniques, and proven methods of making the plants healthy.

[Retrieved June 6, 2019]

❖ The Essential Guide to Pruning Plants All Year Long

<https://www.goodhousekeeping.com/home/gardening/advice/g60/pruning-tips-0307/>

This webpage provides a guide on pruning the plants for the whole year to keep them healthy using proven methods.

[Retrieved June 6, 2019]

❖ How to Fertilize Through Landscape Fabric

<https://homeguides.sfgate.com/fertilize-through-landscape-fabric-34992.html/>

This webpage provides a guide on fertilizing plants through landscape fabric and keep the weed population down.

[Retrieved June 6, 2019]

❖ How to Get and Maintain a Healthy Lawn

<https://www.wikihow.com/Get-and-Maintain-a-Healthy-Lawn>

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This webpage provides a guide on maintaining your lawn to its healthiest state by careful watering, mowing and fertilization.

[Retrieved June 6, 2019]

❖ How to Recycle Organic Waste

http://en.howtopedia.org/wiki/How_to_Recycle_Organic_Waste

This webpage provides information and effective methods of collecting and disposing organic waste.

[Retrieved June 6, 2019]

Pest Management (Vegetable) NC II

This qualification consists of competencies that a person must achieve in implementing pest management activities in both backyard and commercial vegetable farms. Specifically, it involves carrying out competencies in pest management in relation to the growing of vegetables specifically solinaceous crops such as tomato, pepper and eggplant, and crucifers such as cabbage, broccoli, cauliflower, and Chinese cabbage.

Core Competencies

- Conduct field assessment
- Apply bio-control measures
- Apply cultural management strategies
- Apply physical control measures
- Apply chemical control measures
- Monitor results of pest management activities and provide feedback

❖ What is Integrated Pest management

<https://www.beyondpesticides.org/resources/safety-source-on-pesticide-providers/what-is-integrated-pest-management>

This webpage provides information about the various methods to be used in eliminating or reducing pests in farm crops and vegetation.

[Retrieved June 6, 2019]

❖ Pest control

<http://www.lstraining.com/>

This webpage from wikipedia.com defines pest control as the regulation or management of a species defined as a pest, usually because it is perceived to be detrimental to a person's health, the ecology or the economy.

[Retrieved June 6, 2019]

❖ Illustrated Guide to Integrated Pest Management in Rice in Tropical Asia

<http://irri.org/resources/publications/books/illustrated-guide-to-integrated-pest-management-in-rice-in-tropical-asia-english>

This webpage provides practical and comprehensive information to IPM workers in rice fields throughout tropical Asia. It briefly discusses rice plant structure and growth stages and stresses their relation to pest.

[Retrieved June 6, 2019]

❖ Integrated Pest Management Principles

<https://www.epa.gov/safepestcontrol/integrated-pest-management-ipm-principles>

This webpage provides information about IPM as an affective and environmentally sensitive approach to pest management that seleis on a combination of common sense practices.

[Retrieved June 6, 2019]

❖ What is Biological Control?

<https://biocontrol.entomology.cornell.edu/what.php>

This webpage provides information about biological control which is a component of an integrated pest management strategy. It is defined as the reduction of pest populations by natural enemies and typically involves an active human r

ole.

[Retrieved June 6, 2019]

❖ Cultural Method of Pest Control

[http://www.nzdl.org/gsdmod?e=d-00000-00---off-0hdl--00-0----0-10-0--0---0direct-10---4-----0-1|--11-en-50---20-about---00-0-1-00-0--4---0-0-11-10-0utfZz-8-](http://www.nzdl.org/gsdmod?e=d-00000-00---off-0hdl--00-0----0-10-0--0---0direct-10---4-----0-1|--11-en-50---20-about---00-0-1-00-0--4---0-0-11-10-0utfZz-8-00&cl=CL1.2&d=HASH01abe8c223cc35b9cb2cf343.6.2.1>=1)

[00&cl=CL1.2&d=HASH01abe8c223cc35b9cb2cf343.6.2.1>=1](http://www.nzdl.org/gsdmod?e=d-00000-00---off-0hdl--00-0----0-10-0--0---0direct-10---4-----0-1|--11-en-50---20-about---00-0-1-00-0--4---0-0-11-10-0utfZz-8-00&cl=CL1.2&d=HASH01abe8c223cc35b9cb2cf343.6.2.1>=1)

This webpage provides information about an approach that utilizes different techniques avoiding use of chemical pesticides to control pests.

[Retrieved June 6, 2019]

❖ How to Control Pests and Diseases? Biological vs. Chemical

http://www.canna-uk.com/how_control_pests_and_diseases_biological_vs_chemical

This webpage provides four ways of controlling pests and diseases.

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[Retrieved June 6, 2019]

Rice Machinery Operations NC II

This qualification consists of competencies that a person must achieve in the operation and basic routine maintenance of rice machinery for land preparation, crop establishment, crop care, harvesting and threshing, drying and milling.

Core Competencies

- Operate rice land preparation machinery and equipment
- Operate rice crop establishment machinery and equipment
- Operate rice crop care machinery and equipment
- Operate rice harvesting and threshing machinery and equipment
- Operate rice drying machinery and equipment
- Operate rice mill machinery and equipment

❖ Rice machinery operations in the Philippines

<http://www.courses.com.ph/rice-machinery-operations-nc-ii-tesda-course-philippines/>

This webpage from courses.com provides details on courses offered by institutions based on promulgated training regulations.

[Retrieved June 6, 2019]

❖ Harvesting operations

<http://www.iloencyclopaedia.org/part-x-96841/agriculture-and-natural-resources-based-industries/farming-systems/farming/harvesting-operations>

This webpage provides information on the harvesting of agricultural crops and production cycle prior to storage and processing.

[Retrieved June 6, 2019]

❖ How to Prepare Land for Planting

<http://www.knowledgebank.irri.org/step-by-step-production/pre-planting/land-preparation>

This webpage provides information on land preparation to ensure that the rice field is ready for planting.

[Retrieved June 6, 2019]

❖ Agricultural mechanization and automation

https://www.researchgate.net/figure/Human-powered-equipment-for-land-preparation-planting-weeding-and-crop-protection-see_fig1_260634594

This webpage provides information on mechanization using human-powered equipment for land preparation, planting, weeding, and crop protection.

[Retrieved June 6, 2019]

❖ Proper Use of Rice/ Wheat Combine Harvester

<http://www.farming-machine.com/news/rice-combine-harvester-use.html>

This webpage provides information on using the combine rice/ wheat harvesting equipment properly. This includes threshing and grain cleaning.

[Retrieved June 6, 2019]

❖ Rice/ Corn Combine Harvester

<http://adamco.ph/ricecombineharvester/>

This webpage provides information on using the combine rice/ corn harvesting equipment to ease the harvesting process.

[Retrieved June 6, 2019]

❖ How to use a dryer

<http://www.knowledgebank.irri.org/training/fact-sheets/postharvest-management/drying-fact-sheet-category/item/how-to-use-a-dryer-fact-sheets>

This webpage provides information about the rice dryer which is a mechanical device that removes the water from wet grains by forcing either ambient air or heated air through the grain bulk.

[Retrieved June 6, 2019]

❖ Knowledge of how rice milling machine work

<https://www.cornmachine.com/knowledge-of-how-rice-milling-machine-work.html>

This webpage provides information on rice milling equipment.

[Retrieved June 6, 2019]