A logo for a college of teacher

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Description automatically generatedUniversity of Southeastern Philippines

*College of Teacher Education and Technology*

**FORM 4.1-5.1**

**TRAINING PLAN**

**Qualification Title:**  ***AGRICULTURAL CROPS PRODUCTION NC III***

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| **Trainees**  **Training**  **Requirements** | **Training**  **Activity/**  **Task** | **Mode of**  **Training** | **Staff** | **Facilities/**  **Tools and**  **Equipment** | **Venue** | **Assessment Arrangement** | **Date** |
| **Unit of Competency: Prepare Land for Agricultural Crop Production** | | | | | | | |
| Job Induction Program | Attend the Job Induction Program | Lecture | RIZALINO O. DELA TORRE JR.  *Coordinator*  SHINE M. CARVAJAL  *ACP Trainer*  CRIZEL JANE C. EMPASIS  *ACP Trainer*  ANNIKA GAIL B. SALIOT  *ACP Trainer*  GEORGE B. DELA CRUZ  *Industry Supervisor* | Multi-media projector;  Table & chairs | University of Southeastern Philippines Tagum Unit |  | June 16, 2025 |
| Industry Orientation | Attend industry policies, guidelines, and safety procedures. | Supervised Industry Learning | RIZALINO O. DELA TORRE JR.  *Coordinator*  SHINE M. CARVAJAL  *ACP Trainer*  CRIZEL JANE C. EMPASIS  *ACP Trainer*  ANNIKA GAIL B. SALIOT  *ACP Trainer*  GEORGE B. DELA CRUZ  *Industry Supervisor* | Multi-media projector;  Table & chairs | University of Southeastern Philippines |  | June 16, 2025 |
| LO1: Prepare for cultivation | Planting plan and its interpretation for a range of crops  OHS hazards and risks, including appropriate controls  Selection, use and maintenance of PPE  Environmental implications of site cultivation and legislations | Supervised Industry Learning | RIZALINO O. DELA TORRE JR.  *Coordinator*  SHINE M. CARVAJAL  *ACP Trainer*  CRIZEL JANE C. EMPASIS  *ACP Trainer*  ANNIKA GAIL B. SALIOT  *ACP Trainer*  GEORGE B. DELA CRUZ  *Industry Supervisor* | Workplace,  Farm planting plan  Equipment  Personal protective equipment,  Farm tools, equipment and machinery,  Supplies and materials | University of Southeastern Philippines Tagum Unit | Written examActual Demonstration  Designing | June 17, 2025 |
| LO2: Prepare the cultivating equipment | Types, uses and selection of vehicles and equipment for site cultivation  Maintenance and servicing of vehicles and equipment  Proper disposal of wastes related to maintenance and servicing work  Documentation and record keeping of maintenance and servicing activities | Supervised Industry Learning | RIZALINO O. DELA TORRE JR.  *Coordinator*  SHINE M. CARVAJAL  *ACP Trainer*  CRIZEL JANE C. EMPASIS  *ACP Trainer*  ANNIKA GAIL B. SALIOT  *ACP Trainer*  GEORGE B. DELA CRUZ  *Industry Supervisor* | Workplace, Vehicles, farm tools and equipment for site cultivation, 4-wheel tractor/hand tractor/work animal, Appropriate plow and harrow, Rotavator Pick mattock, shovel, etc. Tools for vehicle and equipment maintenance and servicing, Pliers, wrench, screw driver, Phillips screw, vise grip, jack, etc. Supplies and materials Rag Fuel, oil, grease, lubricants. | University of Southeastern Philippines Tagum Unit | Written exam  Actual Demonstration  Observation | June 18, 2025 |
| LO3: Cultivate soil | Land clearing / Removal of previous crop  Cultivation practices and procedures  OHS hazards and risks related to soil cultivation  Selection, use and maintenance of PPE  Operation, including adjustments, of vehicles and equipment  Interpretation of schedule, resources and cultivation requirements from the planting plan | Supervised Industry Learning | RIZALINO O. DELA TORRE JR.  *Coordinator*  SHINE M. CARVAJAL  *ACP Trainer*  CRIZEL JANE C. EMPASIS  *ACP Trainer*  ANNIKA GAIL B. SALIOT  *ACP Trainer*  GEORGE B. DELA CRUZ  *Industry Supervisor* | Workplace, Vehicles, farm tools and equipment for site cultivation, 4-wheel tractor/hand tractor,  Appropriate plow and harrow,  Rotavator,  Pick mattock, shovel,  Tools for vehicle and equipment maintenance and servicing. Pliers, wrench, screw driver, Phillips screw, vise grip, jack, Supplies and materials, Rag, Fuel, oil, grease, lubricants. Personal protective equipment, and Learning materials (machinery/equipment operating manuals) | University of Southeastern Philippines Tagum Unit | Written exam  Actual Demonstration Observation | June 19, 2025 |
| LO4: Prepare site for planting | Planting layout  Soil profiling  Fertilizers, ameliorants, and/or other pre-planting treatments  Weed and pest control measures  Environmental implications of site preparation and legislations | Supervised Industry Learning | RIZALINO O. DELA TORRE JR.  *Coordinator*  SHINE M. CARVAJAL  *ACP Trainer*  CRIZEL JANE C. EMPASIS  *ACP Trainer*  ANNIKA GAIL B. SALIOT  *ACP Trainer*  GEORGE B. DELA CRUZ  *Industry Supervisor* | Workplace, Materials Chemicals and fertilizers, Ameliorants and other pre-planting treatment materials, Facilities, tools, and equipment (sprayer, soil auger, etc.) | University of Southeastern Philippines Tagum Unit | Actual Demonstration  Questioning | June 20, 2025 |
| LO5: Complete land preparation operations | Land preparation operations for a range of crops  Cleaning and maintenance of equipment according to manufacturers' specifications, organizational procedures and regulations  Proper disposal of wastes from cleaning and maintenance work  Documentation and record keeping | Supervised Industry Learning | RIZALINO O. DELA TORRE JR.  *Coordinator*  SHINE M. CARVAJAL  *ACP Trainer*  CRIZEL JANE C. EMPASIS  *ACP Trainer*  ANNIKA GAIL B. SALIOT  *ACP Trainer*  GEORGE B. DELA CRUZ  *Industry Supervisor* | Workplace, Vehicles and equipment, cleaning materials (rag, brush, dipper, pail, etc) and supplies (detergent, oil, grease, fuel, plastic bags, etc), Tools and equipment (wrench, pliers, jack, screw drivers, etc) | University of Southeastern Philippines Tagum Unit | Actual Demonstration  Questioning | June 21, 2025 |
| **Unit of Competency: Implement a Post-Harvest Program** | | | | | | | |
| LO1: Prepare for implementation of post-harvest operations | Types of post-harvest operations  Types, uses and selection of machinery, tools and equipment for post-harvest activities  Pre-operational and safety checks on machinery, tools and equipment  OHS hazards and risks and its control  Selection, use and maintenance of PPE | Supervised Industry Learning | RIZALINO O. DELA TORRE JR.  *Coordinator*  SHINE M. CARVAJAL  *ACP Trainer*  CRIZEL JANE C. EMPASIS  *ACP Trainer*  ANNIKA GAIL B. SALIOT  *ACP Trainer*  GEORGE B. DELA CRUZ  *Industry Supervisor* | Workplace Tools, machinery and equipment for post-harvest operations Thresher Drier Sheller, mill, grader, weighing scale, etc. Personal Protective Equipment Supplies and materials (plastic bags, nets, preservatives, etc.) Machinery and equipment operating manuals | University of Southeastern Philippines Tagum Unit | Written exam | June 23, 2025 |
| LO2: Co-ordinate post-harvest work | Task coordination and consultation  Post-harvest operations  Environmental implications of post-harvest work  Maintenance of clean, safe and hygienic work area | Supervised Industry Learning | RIZALINO O. DELA TORRE JR.  *Coordinator*  SHINE M. CARVAJAL  *ACP Trainer*  CRIZEL JANE C. EMPASIS  *ACP Trainer*  ANNIKA GAIL B. SALIOT  *ACP Trainer*  GEORGE B. DELA CRUZ  *Industry Supervisor* | Workplace,  Tools, machinery and equipment for post-harvest operations,  Thresher, Drier, Sheller, mill, grader, weighing scale, Personal Protective Equipment, Supplies and materials (plastic bags, nets, preservatives, etc.), Machinery and equipment operating manuals | University of Southeastern Philippines Tagum Unit | Actual Demonstration  Questioning | June 24, 2025 |
| LO3: Implement post-harvest work | Grading and labelling of harvested produce  Handling and disposal of out-of-specification/standard produce  Types and selection of post-harvest treatments  Timing, rate, application method, environmental requirements and handling techniques related to post-harvest treatments  Post-harvest practices.  Cleaning and maintenance of tools, equipment and machinery | Supervised Industry Learning | RIZALINO O. DELA TORRE JR.  *Coordinator*  SHINE M. CARVAJAL  *ACP Trainer*  CRIZEL JANE C. EMPASIS  *ACP Trainer*  ANNIKA GAIL B. SALIOT  *ACP Trainer*  GEORGE B. DELA CRUZ  *Industry Supervisor* | Workplace,  Tools, machinery and equipment (sprayer, grader, labelling machine, etc), Materials and supplies (rags, chemicals, preservatives, wax, etc), and PPE | University of Southeastern Philippines Tagum Unit | Actual Demonstration Questioning | June 25, 2025 |
| LO4: Implement hazardous waste disposal guidelines | Types of hazardous materials  Guidelines on proper waste collection and disposal  Waste monitoring  Waste reporting  Environmental legislation | Supervised Industry Learning | RIZALINO O. DELA TORRE JR.  *Coordinator*  SHINE M. CARVAJAL  *ACP Trainer*  CRIZEL JANE C. EMPASIS  *ACP Trainer*  ANNIKA GAIL B. SALIOT  *ACP Trainer*  GEORGE B. DELA CRUZ  *Industry Supervisor* | Workplace,  Personal protective clothing and equipment,  Standard operating procedures on disposal of hazardous wastes | University of Southeastern Philippines Tagum Unit | Actual Demonstra-tion  Questioning | June 26, 2025 |
| LO5: Implement packaging requirements of produce | Packaging requirements for agronomic crops  Types of packaging materials, including environment-friendly materials  Documentation and record keeping of packaging processes | Supervised Industry Learning | RIZALINO O. DELA TORRE JR.  *Coordinator*  SHINE M. CARVAJAL  *ACP Trainer*  CRIZEL JANE C. EMPASIS  *ACP Trainer*  ANNIKA GAIL B. SALIOT  *ACP Trainer*  GEORGE B. DELA CRUZ  *Industry Supervisor* | Workplace,  Packaging materials and supplies,  Plastic sacks,  Red mesh sacks  Crates, boxes, cartons, etc.  Weighing scales,  Sealing machines | University of Southeastern Philippines Tagum Unit | Actual Demonstration  Questioning | June 27, 2025 |
| LO6: Implement storage requirements of produce | Types of storage facility  Storage principles and practices; Good Warehouse keeping  Storage requirements for agronomic crops  Handling of agronomic crops  Storage processes and facilities, including monitoring activities  Documentation and recording of storage processes and conditions | Supervised Industry Learning | RIZALINO O. DELA TORRE JR.  *Coordinator*  SHINE M. CARVAJAL  *ACP Trainer*  CRIZEL JANE C. EMPASIS  *ACP Trainer*  ANNIKA GAIL B. SALIOT  *ACP Trainer*  GEORGE B. DELA CRUZ  *Industry Supervisor* | Workplace,  Storage and handling facility,  Warehouse,  Forklift,  Conveyor, etc.),  Tools and equipment,  Weighing scales,  Moisture meter,  Pallet, fire extinguisher, etc) | University of Southeastern Philippines Tagum Unit | Actual Demonstration  Questioning | June 28, 2025 |
| **Unit of Competency: Implement a Plant Nutrition Program** | | | | | | | |
| LO1: Prepare for implementation of the plant nutrition program | Types of plant species and varieties  Soil analysis  Soil and plant treatments  OHS hazards, risks, and its control  Selection, use and maintenance of PPE | Supervised Industry Learning | RIZALINO O. DELA TORRE JR.  *Coordinator*  SHINE M. CARVAJAL  *ACP Trainer*  CRIZEL JANE C. EMPASIS  *ACP Trainer*  ANNIKA GAIL B. SALIOT  *ACP Trainer*  GEORGE B. DELA CRUZ  *Industry Supervisor* | Workplace with commercial agronomic cropping Farm production plan Workplace production data and records Soil test kit and PPE | University of Southeastern Philippines Tagum Unit | Direct observation and interview | June 30, 2025 |
| LO2: Monitor soil pH | Soil sampling techniques  Soil pH monitoring and plant growth  Factors affecting soil pH  Products useful in changing soil pH, including application methods | Supervised Industry Learning | RIZALINO O. DELA TORRE JR.  *Coordinator*  SHINE M. CARVAJAL  *ACP Trainer*  CRIZEL JANE C. EMPASIS  *ACP Trainer*  ANNIKA GAIL B. SALIOT  *ACP Trainer*  GEORGE B. DELA CRUZ  *Industry Supervisor* | Workplace with commercial agronomic cropping Farm production plan Workplace production data and records Soil auger Soil pH kit | University of Southeastern Philippines Tagum Unit | Direct observation and interview | July 1, 2025 |
| LO3: Determine nutritional problems in plants | Common nutrient deficiency and toxicity problems in plants.  Causes of nutritional or toxicity problems  Types and selection of soil ameliorants and its application | Supervised Industry Learning | RIZALINO O. DELA TORRE JR.  *Coordinator*  SHINE M. CARVAJAL  *ACP Trainer*  CRIZEL JANE C. EMPASIS  *ACP Trainer*  ANNIKA GAIL B. SALIOT  *ACP Trainer*  GEORGE B. DELA CRUZ  *Industry Supervisor* | Workplace with commercial agronomic cropping or horticulture Crop production manual Workplace production data and records Soil ameliorants Soil test kit | University of Southeastern Philippines Tagum Unit | Direct observation and interview | July 2, 2025 |
| LO4 Prepare to use fertilizers | Types and uses of various fertilizers  Methods of fertilizer application  Soil types  Plant growing cycle  Farm fertilizer calendar  Handling and storage of fertilizers  Environmental implications of fertilizer application | Supervised Industry Learning | RIZALINO O. DELA TORRE JR.  *Coordinator*  SHINE M. CARVAJAL  *ACP Trainer*  CRIZEL JANE C. EMPASIS  *ACP Trainer*  ANNIKA GAIL B. SALIOT  *ACP Trainer*  GEORGE B. DELA CRUZ  *Industry Supervisor* | Workplace with commercial agronomic cropping Farm work procedures Fertilizers (urea, complete, ammophos, ammosul, etc) Sprayers and storage facility | University of Southeastern Philippines Tagum Unit | Direct observation and interview | July 3, 2025 |
| LO5: Prepare application equipment | Types and uses of tools, equipment and machinery for fertilizer application  Pre-operational and safety checks on tools, equipment and machinery  Calibration and adjustment of tools, equipment and machinery  Selection, use and maintenance of PPE | Supervised Industry Learning | RIZALINO O. DELA TORRE JR.  *Coordinator*  SHINE M. CARVAJAL  *ACP Trainer*  CRIZEL JANE C. EMPASIS  *ACP Trainer*  ANNIKA GAIL B. SALIOT  *ACP Trainer*  GEORGE B. DELA CRUZ  *Industry Supervisor* | Workplace with commercial agronomic cropping Tools, equipment and machinery (spatula, sprayer, etc) PPE | University of Southeastern Philippines Tagum Unit | Direct observation and interview | June 4, 2025 |
| LO6: Apply specific products at appropriate rates | Selection of fertilizers based on soil analysis and plant needs  Calculation of fertilizer application rates  Proper fertilizer application, including rate, timing and method  Record keeping of product application activities  Monitoring, recording and reporting of target plant response to nutrition program | Supervised Industry Learning | RIZALINO O. DELA TORRE JR.  *Coordinator*  SHINE M. CARVAJAL  *ACP Trainer*  CRIZEL JANE C. EMPASIS  *ACP Trainer*  ANNIKA GAIL B. SALIOT  *ACP Trainer*  GEORGE B. DELA CRUZ  *Industry Supervisor* | Workplace with commercial agronomic cropping Fertilizers (urea, complete, ammophos, ammosul, potash, etc.) Tools, equipment and machinery (sprayers, spatula, etc.) Technical manuals on fertilizer application PPE | University of Southeastern Philippines Tagum Unit | Direct observation and interview | July 5, 2025 |
| **Unit of Competency: Control Weeds** | | | | | | | |
| LO1: Assess weed infestation | Types of weeds and Beneficial organisms  Economic, aesthetic or environmental thresholds for a range of weeds  IPM principles | Supervised Industry Learning | RIZALINO O. DELA TORRE JR.  *Coordinator*  SHINE M. CARVAJAL  *ACP Trainer*  CRIZEL JANE C. EMPASIS  *ACP Trainer*  ANNIKA GAIL B. SALIOT  *ACP Trainer*  GEORGE B. DELA CRUZ  *Industry Supervisor* | Workplace with a range of weeds Tools, equipment and materials for controlling weeds (herbicides, sprayers, weeder, gardening implements, etc.) Enterprise procedures, work plans relevant to weed control  IPM manual | University of Southeastern Philippines Tagum Unit | Direct observation and interview | July 7, 2025 |
| LO2: Plan the implementation of control measures | Chemical, biological and cultural control methods and treatments for weeds  IPM principles  Range and use of tools, equipment and implements for weed control  Selection, use and maintenance of PPE  OHS issues and environmental legislative requirements | Supervised Industry Learning | RIZALINO O. DELA TORRE JR.  *Coordinator*  SHINE M. CARVAJAL  *ACP Trainer*  CRIZEL JANE C. EMPASIS  *ACP Trainer*  ANNIKA GAIL B. SALIOT  *ACP Trainer*  GEORGE B. DELA CRUZ  *Industry Supervisor* | Workplace with a range of weeds Tools, equipment and materials (herbicides, sprayers, weeder, gardening implements, etc.) Enterprise procedures, work plans relevant to weed control PPE | University of Southeastern Philippines Tagum Unit | Direct observation and interview | July 8, 2025 |
| LO3: Implement control measures | Work coordination and consultation  Implementation of control measures and IPM activities  OHS requirements | Supervised Industry Learning | RIZALINO O. DELA TORRE JR.  *Coordinator*  SHINE M. CARVAJAL  *ACP Trainer*  CRIZEL JANE C. EMPASIS  *ACP Trainer*  ANNIKA GAIL B. SALIOT  *ACP Trainer*  GEORGE B. DELA CRUZ  *Industry Supervisor* | Workplace with a range of weeds Tools, equipment and materials (herbicides, sprayers, weeder, gardening implements, etc.) Enterprise procedures, work plans relevant to weed control IPM manual PPE | University of Southeastern Philippines Tagum Unit | Direct observation and interview | July 9, 2025 |
| LO4: Monitor control methods | Range of site monitoring and analysis techniques that may be used to implement an IPM program  Possible side effects of control methods to plants, animals or external environment  Possible adjustments/corrective actions related to IPM controls | Supervised Industry Learning | RIZALINO O. DELA TORRE JR.  *Coordinator*  SHINE M. CARVAJAL  *ACP Trainer*  CRIZEL JANE C. EMPASIS  *ACP Trainer*  ANNIKA GAIL B. SALIOT  *ACP Trainer*  GEORGE B. DELA CRUZ  *Industry Supervisor* | Workplace with a range of weeds Tools, equipment and materials (herbicides, sprayers, weeder, gardening implements, etc.) Enterprise procedures, work plans relevant to weed control IPM manual | University of Southeastern Philippines Tagum Unit | Direct observation and interview | July 10, 2025 |
| **Unit of Competency: Prepare and Apply Chemicals** | | | | | | | |
| LO1: Determine the need for chemical use | Types of weeds and insects and its effects on crops  Common plant diseases and their symptoms  Economic, aesthetic or environmental thresholds for a range of pests and diseases  IPM principles  Chemical free options for pest control  OHS issues, legislative requirements and Codes of Practice relevant to chemical use and hazardous waste substances | Supervised Industry Learning | RIZALINO O. DELA TORRE JR.  *Coordinator*  SHINE M. CARVAJAL  *ACP Trainer*  CRIZEL JANE C. EMPASIS  *ACP Trainer*  ANNIKA GAIL B. SALIOT  *ACP Trainer*  GEORGE B. DELA CRUZ  *Industry Supervisor* | The students/trainees must be provided with the following: Workplace with a range of pests and diseases Enterprise procedures relating to chemical use Environmental policies and procedures | University of Southeastern Philippines Tagum Unit | Direct observation and interview | July 12 2025 |
| LO2: Prepare appropriate chemical | Principles and practices in chemical use  Understanding chemical labels and material safety data sheets  OHS issues, legislative requirements and Codes of Practice relevant to chemical use and hazardous waste substances | Supervised Industry Learning | RIZALINO O. DELA TORRE JR.  *Coordinator*  SHINE M. CARVAJAL  *ACP Trainer*  CRIZEL JANE C. EMPASIS  *ACP Trainer*  ANNIKA GAIL B. SALIOT  *ACP Trainer*  GEORGE B. DELA CRUZ  *Industry Supervisor* | The students/trainees must be provided with the following: Workplace with a range of pests and diseases Workplace equipment and storage facilities for chemical mixing and application (sprayer, spatula, etc.) Enterprise procedures relating to chemical use Chemical labels and MSDS PPE | University of Southeastern Philippines Tagum Unit | Direct observation and interview | July 13, 2025 |
| LO3: Prepare to use chemicals according to the label and MSDS | Chemical use according to product label and MSDS  Chemical compatibility  Calculation of mixing rates  Selection, use and maintenance of PPE  Pre and post-operative checks on equipment and tools  Calibration and adjustment of equipment and tools  OHS issues, legislative requirements and Codes of Practice relevant to chemical use and hazardous substances | Supervised Industry Learning | RIZALINO O. DELA TORRE JR.  *Coordinator*  SHINE M. CARVAJAL  *ACP Trainer*  CRIZEL JANE C. EMPASIS  *ACP Trainer*  ANNIKA GAIL B. SALIOT  *ACP Trainer*  GEORGE B. DELA CRUZ  *Industry Supervisor* | The students/trainees must be provided with the following: Workplace with a range of pests and diseases Workplace equipment and storage facilities for chemical mixing and application (sprayers, pail, etc.) Enterprise procedures relating to chemical use Chemicals and other supplies and materials (insecticides, herbicides, fungicides, etc.) | University of Southeastern Philippines Tagum Unit | Direct observation and interview | July 14, 2025 |
| LO4: Apply chemicals | Meteorological conditions in relation to chemical use  Calibration and adjustment of equipment and tools  Modes of chemical absorption and paths of entry, including risks to applicators and the public  Licensing requirements and relevant government authorities  Environmental effects of chemicals  Drift management  Hazard identification, assessment, control and emergency response  OHS issues, legislative requirements and Codes of Practice relevant to chemical  use and hazardous substances  First aid practices and procedures | Supervised Industry Learning | RIZALINO O. DELA TORRE JR.  *Coordinator*  SHINE M. CARVAJAL  *ACP Trainer*  CRIZEL JANE C. EMPASIS  *ACP Trainer*  ANNIKA GAIL B. SALIOT  *ACP Trainer*  GEORGE B. DELA CRUZ  *Industry Supervisor* | The students/trainees must be provided with the following: Workplace with a range of pests and diseases Workplace equipment and storage facilities for chemical mixing and application (sprayers, pail, etc.) Enterprise procedures relating to chemical use Equipment operating manual Chemicals and other supplies and materials (insecticides, herbicides, fungicides, etc.) First aid equipment/kit | University of Southeastern Philippines Tagum Unit | CBC Agricultural Crops Production NC III | July 15, 2025 |
| LO5: Clean up following chemical application | Cleaning of site and tools and equipment used in chemical application  Proper disposal of unused chemicals, containers and spilled materials  Proper storage of chemicals  Procedures for reporting chemical spills  Environmental legislation | Supervised Industry Learning | RIZALINO O. DELA TORRE JR.  *Coordinator*  SHINE M. CARVAJAL  *ACP Trainer*  CRIZEL JANE C. EMPASIS  *ACP Trainer*  ANNIKA GAIL B. SALIOT  *ACP Trainer*  GEORGE B. DELA CRUZ  *Industry Supervisor* | Workplace tools, equipment and storage facilities (sprayer, pail, etc.) Enterprise procedures relating to chemical use cleaning tools, equipment supplies and materials (brush, detergent, rag, etc.) | University of Southeastern Philippines Tagum Unit | Direct observation and interview | July 16, 2025 |
| LO6: Record application details | ecord keeping related to chemical use according to organization procedures, label directions and legislation  Procedures and requirements for reporting application details to management  Inventory taking of PPE and application equipment  Record keeping of injury and poisoning associated with chemical use | Supervised Industry Learning | RIZALINO O. DELA TORRE JR.  *Coordinator*  SHINE M. CARVAJAL  *ACP Trainer*  CRIZEL JANE C. EMPASIS  *ACP Trainer*  ANNIKA GAIL B. SALIOT  *ACP Trainer*  GEORGE B. DELA CRUZ  *Industry Supervisor* | The students/trainees must be provided with the following: Workplace Enterprise procedures relating to chemical use, including record keeping and inventory | University of Southeastern Philippines Tagum Unit | Direct observation and interview | July 17, 2025 |
| **Unit of Competency: Establish Agronomic Crops** | | | | | | | |
| LO1: Prepare machinery and equipment for use | Selection and use of machinery and equipment  Pre-operational and safety checks for seeding machinery and equipment  Operating principles and operating methods for machinery and equipment  Relevant provincial/municipal legislation, regulations and codes of practice with regard to licensing requirements and the use and control of machinery and equipment  OHS hazards and risks and its control | Supervised Industry Learning | RIZALINO O. DELA TORRE JR.  *Coordinator*  SHINE M. CARVAJAL  *ACP Trainer*  CRIZEL JANE C. EMPASIS  *ACP Trainer*  ANNIKA GAIL B. SALIOT  *ACP Trainer*  GEORGE B. DELA CRUZ  *Industry Supervisor* | The students/trainees must be provided with the following: Workplace where agronomic crops are to be established Workplace information relating to crop establishment Farm procedures relating to crop establishment Machinery and equipment (tractor, work animal, seeder, planter, digging tools, light hoe, bolo, etc.) | University of Southeastern Philippines Tagum Unit | Direct Observation Oral Interview Portfolio Assessment | July 19, 2025 |
| LO2: Prepare for agronomic crop establishment | Sustainable land management and soil conservation techniques/Land preparation  Crop types, preparation of seeds, seeding methods and application techniques  Fertilizer types, rates of application and crop nutrient requirements/Integrated nutrient management  Types of chemical pesticides and alternative pest control methods (non-chemical)/Integrated Pest Management  Calculation of pesticide requirements and application rates  Effects of weather conditions on seeding and fertilizer application  Contingency planning  Relevant provincial/municipal legislation, regulations and codes of practice with regard to workplace OHS and the use and control of hazardous substances | Supervised Industry Learning | RIZALINO O. DELA TORRE JR.  *Coordinator*  SHINE M. CARVAJAL  *ACP Trainer*  CRIZEL JANE C. EMPASIS  *ACP Trainer*  ANNIKA GAIL B. SALIOT  *ACP Trainer*  GEORGE B. DELA CRUZ  *Industry Supervisor* | Workplace where agronomic crops are to be established Workplace information relating to crop establishment Farm procedures relating to crop establishment Legislation, regulations, and codes of practice on OHS and hazardous substances | University of Southeastern Philippines Tagum Unit | Direct observation | July 20, 2025 |
| LO3: Sow the crop | Seeding methods and application techniques  Types of fertilizers and methods of application  Pest and weed control treatments  Environmental implications of seeding operations and fertilizer application  Selection, use and maintenance of personal protective equipment | Supervised Industry Learning | RIZALINO O. DELA TORRE JR.  *Coordinator*  SHINE M. CARVAJAL  *ACP Trainer*  CRIZEL JANE C. EMPASIS  *ACP Trainer*  ANNIKA GAIL B. SALIOT  *ACP Trainer*  GEORGE B. DELA CRUZ  *Industry Supervisor* | Workplace where agronomic crops are to be established Workplace information relating to crop establishment Farm procedures on crop establishment Materials and supplies (seeds, planting materials, fertilizers, chemicals, etc.) Tools, machinery, and equipment (tractor, seeder, planter, digging tools, light hoe, bolo, etc.) | University of Southeastern Philippines Tagum Unit | Direct Observation Oral Interview Portfolio Assessment | July 21, 2025 |
| LO4: Complete seeding operations | Record keeping related to seeding, machinery and equipment operation  Servicing and maintenance procedures for seeding machinery and equipment  Reporting of machinery damage, faults or malfunctions  Procedures for cleaning, securing and storing machinery, equipment and materials | Supervised Industry Learning | RIZALINO O. DELA TORRE JR.  *Coordinator*  SHINE M. CARVAJAL  *ACP Trainer*  CRIZEL JANE C. EMPASIS  *ACP Trainer*  ANNIKA GAIL B. SALIOT  *ACP Trainer*  GEORGE B. DELA CRUZ  *Industry Supervisor* | Workplace where agronomic crops are to be established Workplace information relating to crop establishment Farm procedures relating to crop establishment Seeding machinery and equipment (tractor, seeder, planter, digging tools, light hoe, bolo, etc.) Machinery and equipment operating manuals | University of Southeastern Philippines Tagum Unit | Direct Observation Oral Interview Portfolio Assessment | July 22, 2025 |
| **Unit of Competency: Undertake Agronomic Crop Maintenance Activities** | | | | | | | |
| LO1: Assess agronomic crop condition, growth and requirement | Types of crop maintenance activities.  Growth stages for a range of crops  Principles and methods  used to achieve crop maintenance goals  Effects on plant growth,  habit and production levels of crop maintenance activities.  Site and operational requirements of crop maintenance program  Farm quality procedures and crop characteristics relative to varying market requirements | Supervised Industry Learning | RIZALINO O. DELA TORRE JR.  *Coordinator*  SHINE M. CARVAJAL  *ACP Trainer*  CRIZEL JANE C. EMPASIS  *ACP Trainer*  ANNIKA GAIL B. SALIOT  *ACP Trainer*  GEORGE B. DELA CRUZ  *Industry Supervisor* | The students/trainees must be provided with the following: Workplace with commercial plants of agronomic crops Quality specifications Production plan and schedule Farm procedures relating to crop maintenance | University of Southeastern Philippines Tagum Unit | Direct observation Oral interview Portfolio assessment | July 25, 2025 |
| LO2: Apply fertilizer and amendments | Types and uses of crop maintenance tools, equipment and machinery  Reading and understanding manufacturer's specifications  Pre-operational and safety checks according to manufacturer's specifications and farm work procedures  Calibration and adjustment according to manufacturer's specifications and farm work procedures  Proper fertilizer, amendment, and water application procedures  PPE and OHS requirements  Environmental regulations | Supervised Industry Learning | RIZALINO O. DELA TORRE JR.  *Coordinator*  SHINE M. CARVAJAL  *ACP Trainer*  CRIZEL JANE C. EMPASIS  *ACP Trainer*  ANNIKA GAIL B. SALIOT  *ACP Trainer*  GEORGE B. DELA CRUZ  *Industry Supervisor* | Workplace with commercial plants of agronomic crops Quality specifications Production plan and schedule Farm procedures relating to chemical application Tools, equipment and machinery (sprayers, pail, irrigation system, etc.) Farm Chemicals (fertilizers, ameliorants, growth enhancer, etc.) | University of Southeastern Philippines Tagum Unit | Direct observation Oral interview Portfolio assessment | July 26, 2025 |
| LO3: Monitor crop condition, growth, and requirement | Task coordination of maintenance activities  Monitoring system of maintenance activities and feedback provision  Cropping calendar  Hygiene requirements for agronomic crops | Supervised Industry Learning | RIZALINO O. DELA TORRE JR.  *Coordinator*  SHINE M. CARVAJAL  *ACP Trainer*  CRIZEL JANE C. EMPASIS  *ACP Trainer*  ANNIKA GAIL B. SALIOT  *ACP Trainer*  GEORGE B. DELA CRUZ  *Industry Supervisor* | The students/trainees must be provided with the following: Workplace with commercial plants of agronomic crops Quality specifications Production plan and schedule Farm procedures relating to crop maintenance monitoring Farm chemicals (fertilizers, ameliorants, growth enhancers, insecticides, herbicides, etc.) | University of Southeastern Philippines Tagum Unit | Direct Observation Oral Interview Portfolio Assessment | July 27, 2025 |
| LO4: Complete cleaning and hygiene operations | Proper waste collection and disposal  Cleaning, maintenance and storage of tools, equipment and machinery  Recording and reporting of crop maintenance activities | Supervised Industry Learning | RIZALINO O. DELA TORRE JR.  *Coordinator*  SHINE M. CARVAJAL  *ACP Trainer*  CRIZEL JANE C. EMPASIS  *ACP Trainer*  ANNIKA GAIL B. SALIOT  *ACP Trainer*  GEORGE B. DELA CRUZ  *Industry Supervisor* | Workplace with commercial plants of agronomic crops Farm procedures relating to maintenance of tools, equipment and machinery Tools, equipment and machinery (sprayers, pail, irrigation system, etc.) Environmental regulations cleaning supplies and materials (brush, rags, detergent, etc.) | University of Southeastern Philippines Tagum Unit | Direct Observation Oral Interview Portfolio Assessment | July 28, 2025 |
| **Unit of Competency: Undertake Agronomic Crop Harvesting Activities** | | | | | | | |
| LO1: Prepare to harvest agronomic crops | Maturity parameters for a range of crops  Farm quality procedures and crop characteristics relative to varying market requirements  Moisture and hygiene requirements for the crop and equipment  Environmental factors affecting crop harvesting activities  Selection and use of harvesting tools, equipment and machinery  Licensing requirements for use of machinery and equipment  Selection, use and maintenance of PPE  OHS hazards and risks and controls | Supervised Industry Learning | RIZALINO O. DELA TORRE JR.  *Coordinator*  SHINE M. CARVAJAL  *ACP Trainer*  CRIZEL JANE C. EMPASIS  *ACP Trainer*  ANNIKA GAIL B. SALIOT  *ACP Trainer*  GEORGE B. DELA CRUZ  *Industry Supervisor* | Workplace with agronomic crops coming into harvest time Workplace information relating to crop harvesting Farm procedures relating to crop harvesting | University of Southeastern Philippines Tagum Unit | Direct observation Oral interview Portfolio assessment | July 31, 2025 |
| LO2: Prepare the harvesting equipment | Machinery operating principles and methods  General machine maintenance procedures  Pre-operational and safety checks on tools, equipment and machinery  Operational procedures and standards for harvesting and ancillary equipment  Potential hazards associated with the operation of basic tools and equipment  Environmental regulations and procedures | Supervised Industry Learning | RIZALINO O. DELA TORRE JR.  *Coordinator*  SHINE M. CARVAJAL  *ACP Trainer*  CRIZEL JANE C. EMPASIS  *ACP Trainer*  ANNIKA GAIL B. SALIOT  *ACP Trainer*  GEORGE B. DELA CRUZ  *Industry Supervisor* | Workplace with agronomic crops coming into harvest time Workplace information relating to crop harvesting Farm procedures relating to crop harvesting Machinery operating manuals Machinery and equipment (harvester, combine, reaper, sickle, etc.) Supplies and materials (fuel, oil, lubricants, grease, rag, brush, et | University of Southeastern Philippines Tagum Unit | Direct observation Oral interview Direct observation Portfolio assessment | August 1, 2025 |
| LO3: Harvest crops | Types of harvesting machinery, harvesting principles and techniques  Safe and efficient harvesting while maintaining the highest degree of hygiene and quality possible  Safe operation of harvesting machinery and ancillary equipment at speeds to suit crop conditions  Checking and adjusting harvester and ancillary equipment including its height and other settings  Factors affecting quality of harvest  Pests and signs of pest infestation in the crop | Supervised Industry Learning | RIZALINO O. DELA TORRE JR.  *Coordinator*  SHINE M. CARVAJAL  *ACP Trainer*  CRIZEL JANE C. EMPASIS  *ACP Trainer*  ANNIKA GAIL B. SALIOT  *ACP Trainer*  GEORGE B. DELA CRUZ  *Industry Supervisor* | Workplace with agronomic crops coming into harvest time Harvesting machinery and equipment including operating manuals (harvester, combine, reaper, sickle, etc.) Crop production manuals Supplies and materials (sacks, baskets, plastic twine, etc.) | University of Southeastern Philippines Tagum Unit | Direct Observation Portfolio Assessment | August 2, 2025 |
| LO4: Complete harvesting operations | Selection, use and maintenance of PPE  Post-harvest handling and packaging including transport procedures for harvested produce  Grading characteristics for a range of crops  Storage requirements for a range of crops  Crop quality monitoring procedures and parameters  Post-operational checks on tools, harvester and equipment  Recording and reporting procedures | Supervised Industry Learning | RIZALINO O. DELA TORRE JR.  *Coordinator*  SHINE M. CARVAJAL  *ACP Trainer*  CRIZEL JANE C. EMPASIS  *ACP Trainer*  ANNIKA GAIL B. SALIOT  *ACP Trainer*  GEORGE B. DELA CRUZ  *Industry Supervisor* | Workplace with agronomic crops that require harvesting Handling, transport, and storage facilities (forklift, pallet, platform scale, moisture meter, conveyor, wooden planks, etc.) Tools and equipment (pliers, wrench, screw driver, Phillips screw, etc.) PPE | University of Southeastern Philippines Tagum Unit | Direct Observation | August 3, 2025 |
| **Unit of Competency: Save, Prepare and Store Agricultural Seed** | | | | | | | |
| LO1: Select seed from agricultural crops | Identification of varieties for a range of crops  Seeding requirements per hectare for a range of crops  Selection of appropriate seed tests  Soil types and elevation/climatic conditions for a range of crops  Environmental controls and codes of practice applicable  Selection of appropriate personal protective equipment  Legislation and regulations relating to OHS, chemical use and application, and use, handling and sale of seed | Supervised Industry Learning | RIZALINO O. DELA TORRE JR.  *Coordinator*  SHINE M. CARVAJAL  *ACP Trainer*  CRIZEL JANE C. EMPASIS  *ACP Trainer*  ANNIKA GAIL B. SALIOT  *ACP Trainer*  GEORGE B. DELA CRUZ  *Industry Supervisor* | Workplace with saved, prepared and stored seed. Seed test kit, chemical treatments, different seed types Tools and equipment (moisture meter, laboratory scale, etc.) Enterprise procedures relating to grain storage. PPE | University of Southeastern Philippines Tagum Unit | Direct observation Oral interview Portfolio assessment | August 6, 2025 |
| LO2: Evaluate and grade seed | Seed suitability to location, soil, and market requirements  Criteria for grading seeds  Seed grading procedures  Seed treatment and cleaning measures; inoculation treatments and seed  dressings  Record keeping | Supervised Industry Learning | RIZALINO O. DELA TORRE JR.  *Coordinator*  SHINE M. CARVAJAL  *ACP Trainer*  CRIZEL JANE C. EMPASIS  *ACP Trainer*  ANNIKA GAIL B. SALIOT  *ACP Trainer*  GEORGE B. DELA CRUZ  *Industry Supervisor* | Workplace with seeds for grading Chemical treatments and inoculants (fungicides, insecticides, etc.) Tools and materials (Sampling tools, sorter/grader, etc.) Enterprise procedures relating to seed grading and treatment. | University of Southeastern Philippines Tagum Unit | Direct observation Oral interview Direct observation Portfolio assessment | August 7, 2025 |
| LO3: Store seed | Storage procedures, techniques and requirements for seed and grain  Seed sampling procedures, testing and analysis  Storage facility inspection and maintenance  Pests in stored grain and its control  Factors affecting viability of seeds  Common problems and corrective actions in maintaining seed quality  Environmental implications and OHS hazards  Record keeping of testing, pest control, and other information about the seed | Supervised Industry Learning | RIZALINO O. DELA TORRE JR.  *Coordinator*  SHINE M. CARVAJAL  *ACP Trainer*  CRIZEL JANE C. EMPASIS  *ACP Trainer*  ANNIKA GAIL B. SALIOT  *ACP Trainer*  GEORGE B. DELA CRUZ  *Industry Supervisor* | Workplace with saved, prepared and stored grain. Seed sampling tools and materials (steel probe, plastic bags, etc.) Enterprise procedures relating to sampling and grain storage. Tools, machinery and equipment (hand truck, weighing scale, pallet, etc.) | University of Southeastern Philippines Tagum Unit | Direct Observation Portfolio Assessment | August 8, 2025 |
| LO4: Collect and deliver seed | Sources of purchased seed  Legislation and regulations relating to contractor engagement, vehicle and plant  use, and to the use, handling, movement, and sale of seed  Records and documentation for tracking and handling of seed | Supervised Industry Learning | RIZALINO O. DELA TORRE JR.  *Coordinator*  SHINE M. CARVAJAL  *ACP Trainer*  CRIZEL JANE C. EMPASIS  *ACP Trainer*  ANNIKA GAIL B. SALIOT  *ACP Trainer*  GEORGE B. DELA CRUZ  *Industry Supervisor* | Workplace with saved, prepared and stored grain. Workplace information relating to grain storage Enterprise procedures relating to seed collection and delivery. Tools, machinery, and equipment (weighing scales, hand truck, etc.) | University of Southeastern Philippines Tagum Unit | Direct observation Oral interview Portfolio assessment | August 9, 2025 |
| **Unit of Competency: Implement Vertebrate Pest Control Program** | | | | | | | |
| LO1: Assess requirements for pest control | Types, species and nature of vertebrate pests  Assessment of infestations  Selection and application of control agents and methods | Supervised Industry Learning | RIZALINO O. DELA TORRE JR.  *Coordinator*  SHINE M. CARVAJAL  *ACP Trainer*  CRIZEL JANE C. EMPASIS  *ACP Trainer*  ANNIKA GAIL B. SALIOT  *ACP Trainer*  GEORGE B. DELA CRUZ  *Industry Supervisor* | Workplace Workplace with vertebrate pest problem Tools, equipment and materials used to control vertebrate pest (baits, traps, chemicals, rodenticides, etc.) Farm procedures relating to vertebrate pest control. | University of Southeastern Philippines Tagum Unit | Direct observation Oral interview Portfolio assessment | August 12, 2025 |
| LO2: Prepare to implement control program | Selection, use and maintenance of suitable personal protective equipment  Selection of tools, equipment and materials for vertebrate pest control  Legislation and regulations in pest control, chemical usage and storage, labelling and disposal  OHS legislative requirements and procedures | Internship | RIZALINO O. DELA TORRE JR.  *Coordinator*  SHINE M. CARVAJAL  *ACP Trainer*  CRIZEL JANE C. EMPASIS  *ACP Trainer*  ANNIKA GAIL B. SALIOT  *ACP Trainer*  GEORGE B. DELA CRUZ  *Industry Supervisor* | Workplace with vertebrate pest problem Tools, equipment and materials used to control vertebrate pest (baits, traps, chemicals, rodenticides, etc.) Farm procedures relating to vertebrate pest control. Technical manuals on hazardous materials | University of Southeastern Philippines Tagum Unit | Direct observation Oral interview Direct observation Portfolio assessment | August13, 2025 |
| LO3: Control vertebrate pests | OHS, legislative and industry requirements for vertebrate pest control  Proper selection, use, handling and disposal of hazardous substances and waste materials  Control methods and techniques  Safety signage  Environmental guidelines to protect native vegetation, flora and fauna  PPE and Hygiene requirements | Supervised Industry Learning | RIZALINO O. DELA TORRE JR.  *Coordinator*  SHINE M. CARVAJAL  *ACP Trainer*  CRIZEL JANE C. EMPASIS  *ACP Trainer*  ANNIKA GAIL B. SALIOT  *ACP Trainer*  GEORGE B. DELA CRUZ  *Industry Supervisor* | Workplace with vertebrate pest problem Tools, equipment and materials used to control vertebrate pest (baits, traps, chemicals, rodenticides, etc.) PPE Farm procedures relating to vertebrate pest control. Environmental regulations and legislation | University of Southeastern Philippines Tagum Unit | Direct Observation Portfolio Assessment | August 14, 2025 |
| LO4: Complete control program | Environmental and industry codes of practice for the disposal of carcasses and control agents  Proper cleaning, handling and storage of tools, equipment and excess chemicals  Best practices in vertebrate pest management  Documentation and evaluation of program and outcomes | Supervised Industry Learning | RIZALINO O. DELA TORRE JR.  *Coordinator*  SHINE M. CARVAJAL  *ACP Trainer*  CRIZEL JANE C. EMPASIS  *ACP Trainer*  ANNIKA GAIL B. SALIOT  *ACP Trainer*  GEORGE B. DELA CRUZ  *Industry Supervisor* | Workplace with vertebrate pest problem Tools, equipment and materials used to control vertebrate pest (baits, traps, chemicals, rodenticides, etc.) Farm procedures relating to vertebrate pest control. Tools, equipment and materials in carcass disposal (tong, gloves, disinfectants, bags, etc.) | University of Southeastern Philippines Tagum Unit | Direct observation Oral interview Portfolio assessment | August 15, 2025 |
| Exit Conference | Giving a Certificate of Completion of Training |  | RIZALINO O. DELA TORRE JR.  *Coordinator*  SHINE M. CARVAJAL  *ACP Trainer*  CRIZEL JANE C. EMPASIS  *ACP Trainer*  ANNIKA GAIL B. SALIOT  *ACP Trainer*  GEORGE B. DELA CRUZ  *Industry Supervisor* | Multi-media projector;  Table and Chairs  Certificates | University of Southeastern Philippines Tagum Unit |  | August 16, 2025 |

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