

CORE COMPETENCIES
331 HRS

Unit of Competency	Learning Outcomes	Learning Activities	Methodology	Assessment Method	Nominal Duration
1. Conduct variety and seed selection	1.1 Conduct site characterization	<ul style="list-style-type: none"> Classify soil types Conduct soil type characterization procedures 	<ul style="list-style-type: none"> Lecture / discussion Demonstration Field Visits Video presentation Power point presentation Research activity Incomplete worksheet Role playing Hands-on 	<ul style="list-style-type: none"> Demonstration Written examination Oral questioning 	(Total-45 hrs) 9 hrs
		<ul style="list-style-type: none"> Identify types of grain growing ecosystem 	<ul style="list-style-type: none"> Lecture / discussion Demonstration Field Visits Video presentation Power point presentation Research activity Incomplete worksheet Role playing Hands-on 	<ul style="list-style-type: none"> Demonstration Written examination Oral questioning 	1 hr
		<ul style="list-style-type: none"> Explain the different climatic types <ul style="list-style-type: none"> Weather disturbances Identify climatic patterns 	<ul style="list-style-type: none"> Lecture / discussion Demonstration Field Visits Video presentation Power point presentation Research activity Incomplete worksheet Role playing Hands-on 	<ul style="list-style-type: none"> Demonstration Written examination Oral questioning 	1 hr
		<ul style="list-style-type: none"> Describe the different types of land 	<ul style="list-style-type: none"> Lecture / discussion Demonstration 	<ul style="list-style-type: none"> Demonstration Written 	9 hrs

Unit of Competency	Learning Outcomes	Learning Activities	Methodology	Assessment Method	Nominal Duration
		<ul style="list-style-type: none"> topography <ul style="list-style-type: none"> o Elevation • Determine site topography and elevation through ocular observation 	<ul style="list-style-type: none"> • Field Visits • Video presentation • Power point presentation • Research activity • Incomplete worksheet Role playing • Hands-on 	<ul style="list-style-type: none"> examination • Oral questioning 	
		<ul style="list-style-type: none"> • Enumerate prevalent pests and diseases • Determine the prevalent pests and diseases • Gather pests and diseases – specimens/samples 	<ul style="list-style-type: none"> • Lecture / discussion • Demonstration • Field Visits • Video presentation Power point presentation • Research activity • Incomplete worksheet • Role playing • Hands-on 	<ul style="list-style-type: none"> • Demonstration • Written examination • Oral questioning 	6 hrs
		<ul style="list-style-type: none"> • Prepare sample farm record 	<ul style="list-style-type: none"> • Lecture / discussion • Demonstration • Field Visits • Video presentation • Power point presentation • Research activity • Incomplete worksheet • Role playing • Hands-on 	<ul style="list-style-type: none"> • Demonstration • Written examination • Oral questioning 	1 hr
	1.2 Select suitable seed variety	<ul style="list-style-type: none"> • Familiarize on grain varieties <ul style="list-style-type: none"> o agronomic characteristic o disease and insect pest reaction 	<ul style="list-style-type: none"> • Lecture / discussion • Demonstration • Field Visits • Video presentation Power point presentation 	<ul style="list-style-type: none"> • Demonstration • Written examination • Oral questioning 	3 hrs
		<ul style="list-style-type: none"> • Discuss characteristics of newly released 	<ul style="list-style-type: none"> • Research activity • Incomplete worksheet 	<ul style="list-style-type: none"> • Demonstration • Written 	4 hrs

Unit of Competency	Learning Outcomes	Learning Activities	Methodology	Assessment Method	Nominal Duration
		varieties <ul style="list-style-type: none"> • Perform varietal characterization • List recommended varieties • Access the sources of table of recommended varieties • Discuss adaptability test • Use the table of recommended varieties 	<ul style="list-style-type: none"> • Role playing • Hands-on • Lecture / discussion • Demonstration • Field Visits • Video presentation • Power point presentation • Research activity • Incomplete worksheet • Role playing 	examination <ul style="list-style-type: none"> • Oral questioning 	
		<ul style="list-style-type: none"> • Select varieties 	<ul style="list-style-type: none"> • Hands-on • Lecture / discussion • Demonstration • Field Visits • Video presentation • Power point presentation • Research activity • Incomplete worksheet • Role playing • Hands-on 	<ul style="list-style-type: none"> • Demonstration • Written examination • Oral questioning 	1 hr
	1.3 Select quality seeds	<ul style="list-style-type: none"> • Enumerate the classes of seeds and their color tags • Explain PLSSC standards 	<ul style="list-style-type: none"> • Lecture / discussion • Demonstration • Field Visits • Video presentation • Power point presentation • Research activity • Incomplete worksheet • Role playing • Hands-on 	<ul style="list-style-type: none"> • Demonstration • Written examination • Oral questioning 	2 hrs
		<ul style="list-style-type: none"> • Determine 	<ul style="list-style-type: none"> • Lecture / discussion 	<ul style="list-style-type: none"> • Demonstration 	1 hr

Unit of Competency	Learning Outcomes	Learning Activities	Methodology	Assessment Method	Nominal Duration
		characteristics of quality seeds	<ul style="list-style-type: none"> • Demonstration • Field Visits • Video presentation • Power point presentation • Research activity • Incomplete worksheet • Role playing • Hands-on 	<ul style="list-style-type: none"> • Written examination • Oral questioning 	
		<ul style="list-style-type: none"> • Explain sampling and germination test • Conduct sampling for the germination test • Conduct germination test 	<ul style="list-style-type: none"> • Lecture / discussion • Demonstration • Field Visits • Video presentation • Power point presentation • Research activity • Incomplete worksheet • Role playing • Hands-on 	<ul style="list-style-type: none"> • Demonstration • Written examination • Oral questioning 	2 hrs
		<ul style="list-style-type: none"> • Select quality seeds 	<ul style="list-style-type: none"> • Lecture / discussion • Demonstration • Field Visits • Video presentation • Power point presentation • Research activity • Incomplete worksheet • Role playing • Hands-on 	<ul style="list-style-type: none"> • Demonstration • Written examination • Oral questioning 	1 hr
		<ul style="list-style-type: none"> • Discuss procedures and guidelines in returning and exchanging non – germinating seeds 	<ul style="list-style-type: none"> • Lecture / discussion • Demonstration • Field Visits • Video presentation 	<ul style="list-style-type: none"> • Demonstration • Written examination • Oral questioning 	2 hrs

Unit of Competency	Learning Outcomes	Learning Activities	Methodology	Assessment Method	Nominal Duration
		<ul style="list-style-type: none"> Determine non-germinating seeds result of germination test Return and exchange non-germinating seeds 	<ul style="list-style-type: none"> Power point presentation Research activity Incomplete worksheet Role playing Hands-on 	<ul style="list-style-type: none"> Demonstration Written examination Oral questioning 	2 hrs
2. Perform land preparation	2.1 Perform pre-tillage operations	<ul style="list-style-type: none"> Discuss proper land cleaning activities 	<ul style="list-style-type: none"> Lecture / discussion Demonstration Field Visits Video presentation Power point presentation Role playing Incomplete Worksheet 	<ul style="list-style-type: none"> Demonstration Written examination Oral questioning Interview 	(Total-36 hrs) 1 hr
		<ul style="list-style-type: none"> Identify tools, material and equipment Prepare tools, material and equipment 	<ul style="list-style-type: none"> Lecture / discussion Demonstration Field Visits Video presentation Power point presentation Role playing Incomplete Worksheet 	<ul style="list-style-type: none"> Demonstration Written examination Oral questioning 	1hr
		<ul style="list-style-type: none"> Discuss OSHS <ul style="list-style-type: none"> PPE Practice OSHS 	<ul style="list-style-type: none"> Lecture / discussion Demonstration Field Visits Video presentation Power point presentation Role playing Incomplete Worksheet 	<ul style="list-style-type: none"> Demonstration Written examination Oral questioning 	1hr
		<ul style="list-style-type: none"> Enumerate different machinery services Source out machinery 	<ul style="list-style-type: none"> Lecture / discussion Demonstration 	<ul style="list-style-type: none"> Demonstration Written examination 	2hrs

Unit of Competency	Learning Outcomes	Learning Activities	Methodology	Assessment Method	Nominal Duration
		services	<ul style="list-style-type: none"> • Field Visits • Video presentation • Power point presentation • Research activity • Incomplete worksheet • Role playing 	<ul style="list-style-type: none"> • Oral questioning 	
		<ul style="list-style-type: none"> • Identify characteristics of a well prepared wetland rice and corn field • Describe the activities of preparing/repairing dikes • Prepare/ Repair dikes 	<ul style="list-style-type: none"> • Lecture / discussion • Demonstration • Field Visits • Video presentation • Power point presentation • Research activity • Incomplete worksheet 	<ul style="list-style-type: none"> • Demonstration • Written examination • Oral questioning 	9hrs
	2.2 Conduct tillage operations	<ul style="list-style-type: none"> • Discuss three tillage operations • Apply appropriate tillage practices 	<ul style="list-style-type: none"> • Lecture / discussion • Demonstration • Field Visits • Video presentation • Power point presentation • Role playing • Incomplete Worksheet • Hands-on 	<ul style="list-style-type: none"> • Demonstration • Oral questioning • Written examination • Interview 	10 hrs
		<ul style="list-style-type: none"> • Discuss OSHS <ul style="list-style-type: none"> ○ PPE • Practice OSHS 	<ul style="list-style-type: none"> • Lecture / discussion • Demonstration • Field Visits • Video presentation • Power point presentation • Research activity • Incomplete worksheet 	<ul style="list-style-type: none"> • Demonstration • Written examination • Oral questioning 	1hr

Unit of Competency	Learning Outcomes	Learning Activities	Methodology	Assessment Method	Nominal Duration
	2.3 Perform post-tillage operations	<ul style="list-style-type: none"> Enumerate activities of preparing dikes Repair dikes Discuss relevance of proper wastes disposal as post-operation activities Dispose wastes Explain procedures in completing transaction with machinery services Complete transaction Enumerate record keeping procedures Perform record keeping 	<ul style="list-style-type: none"> Lecture / discussion Demonstration Field Visits Video presentation Power point presentation Research activity Incomplete worksheet 	<ul style="list-style-type: none"> Demonstration Written examination Oral questioning 	11 hrs
3. Carry out crop establishment	3.1 Germinate seeds	<ul style="list-style-type: none"> Discuss processes of seed soaking Demonstrate seed soaking 	<ul style="list-style-type: none"> Lecture / discussion Demonstration Video presentation Power point presentation Incomplete Worksheet Hands-on 	<ul style="list-style-type: none"> Demonstration Written examination Oral questioning 	(Total 70.5 hrs) 9 hrs
		<ul style="list-style-type: none"> Describe the procedures of seed incubation Conduct seed incubation 	<ul style="list-style-type: none"> Lecture / discussion Demonstration Video presentation Power point presentation Incomplete Worksheet Hands-on 	<ul style="list-style-type: none"> Demonstration Written examination Oral questioning 	

Unit of Competency	Learning Outcomes	Learning Activities	Methodology	Assessment Method	Nominal Duration
		<ul style="list-style-type: none"> • Describe the features of germinated seeds • Examine seeds for signs of germination 	<ul style="list-style-type: none"> • Lecture / discussion • Demonstration • Video presentation • Power point presentation • Incomplete • Worksheet • Hands-on 	<ul style="list-style-type: none"> • Demonstration • Written examination • Oral questioning 	1 hr
		<ul style="list-style-type: none"> • Enumerate procedures of transporting and handling of germinated seeds • Handle and transport germinated seeds 	<ul style="list-style-type: none"> • Lecture / discussion • Demonstration • Video presentation • Power point presentation • Incomplete • Worksheet • Hands-on 	<ul style="list-style-type: none"> • Demonstration • Written examination • Oral questioning 	2 hrs
		<ul style="list-style-type: none"> • Identify areas to be checked on the field • Check field for readiness for direct seeding 	<ul style="list-style-type: none"> • Lecture / discussion • Demonstration • Video presentation • Power point presentation • Incomplete • Worksheet • Hands-on 	<ul style="list-style-type: none"> • Demonstration • Written examination • Oral questioning 	5 hrs

Unit of Competency	Learning Outcomes	Learning Activities	Methodology	Assessment Method	Nominal Duration
		<ul style="list-style-type: none"> Identify the corrective measure to be used based on the result of inspection Conduct corrective measures where necessary 	<ul style="list-style-type: none"> Lecture / discussion Demonstration Video presentation Power point presentation Incomplete Worksheet Hands-on 	<ul style="list-style-type: none"> Demonstration Written examination Oral questioning 	2hrs
		<ul style="list-style-type: none"> Differentiate manual direct seeding or broadcasting from mechanical seeding 	<ul style="list-style-type: none"> Lecture / discussion Demonstration Video presentation Power point presentation Incomplete Worksheet Hands-on 	<ul style="list-style-type: none"> Demonstration Written examination Oral questioning 	11hrs
		<ul style="list-style-type: none"> Explain PPE and its uses and functions Use appropriate PPE 	<ul style="list-style-type: none"> Lecture / discussion Demonstration Video Power point presentation Incomplete Worksheet Hands-on presentation 	<ul style="list-style-type: none"> Demonstration Written examination Oral questioning 	1hr
		<ul style="list-style-type: none"> Identify different kinds of pests and their natural enemies Apply appropriate pests control measures 	<ul style="list-style-type: none"> Lecture / discussion Demonstration Video presentation Power point presentation Incomplete 	<ul style="list-style-type: none"> Demonstration Written examination Oral questioning 	2hrs

Unit of Competency	Learning Outcomes	Learning Activities	Methodology	Assessment Method	Nominal Duration
			<ul style="list-style-type: none"> • Worksheet • Hands-on 		
		<ul style="list-style-type: none"> • Identify the parts and functions of drum seeder • Perform manual direct seeding or broadcasting- • Apply mechanical direct seeding 	<ul style="list-style-type: none"> • Lecture / discussion • Demonstration • Video presentation • Power point presentation • Incomplete • Worksheet • Hands-on 	<ul style="list-style-type: none"> • Demonstration • Written examination • Oral questioning 	8hrs
		<ul style="list-style-type: none"> • Enumerate post operation activities • Conduct post-operation activities 	<ul style="list-style-type: none"> • Lecture / discussion • Demonstration • Video presentation • Power point presentation • Incomplete • Worksheet • Hands-on 	<ul style="list-style-type: none"> • Demonstration • Written examination • Oral questioning 	5hrs
	3.3 Establish seedling for transplanting	<ul style="list-style-type: none"> • Identify tools and equipment to be used for sowing • Prepare tools, materials and equipment to be used 	<ul style="list-style-type: none"> • Lecture / discussion • Demonstration • Video presentation • Power point presentation • Incomplete • Worksheet • Hands-on 	<ul style="list-style-type: none"> • Demonstration • Written examination • Oral questioning 	5hrs
		<ul style="list-style-type: none"> • Discuss industry standards in seedbed preparations • Prepare seedbed 	<ul style="list-style-type: none"> • Lecture / discussion • Demonstration • Video presentation • Power point presentation • Incomplete Worksheet • Hands-on 	<ul style="list-style-type: none"> • Demonstration • Written examination • Oral questioning 	

Unit of Competency	Learning Outcomes	Learning Activities	Methodology	Assessment Method	Nominal Duration
		<ul style="list-style-type: none"> • Explain industry standards in sowing • Sow seeds 	<ul style="list-style-type: none"> • Lecture / discussion • Demonstration • Video presentation • Power point presentation • Incomplete • Worksheet • Hands-on 	<ul style="list-style-type: none"> • Demonstration • Written examination • Oral questioning 	3hrs
		<ul style="list-style-type: none"> • Explain industry standards in seedbed and seedling management • Apply seedbed and seedling management 	<ul style="list-style-type: none"> • Lecture / discussion • Demonstration • Video presentation • Power point presentation • Incomplete • Worksheet • Hands-on 	<ul style="list-style-type: none"> • demonstration • written examination • oral questioning 	5hrs
		<ul style="list-style-type: none"> • Elaborate OSHS and GAP for sowing • Wear safety gears 	<ul style="list-style-type: none"> • Lecture / discussion • Demonstration • Video presentation • Power point presentation • Incomplete • Worksheet • Hands-on 	<ul style="list-style-type: none"> • Demonstration • Written examination • Oral questioning 	1.5hrs
		<ul style="list-style-type: none"> • Enumerate post operation activities • Conduct post- operation activities 	<ul style="list-style-type: none"> • Lecture / discussion • Demonstration • Video presentation • Power point presentation • Incomplete • Worksheet • Hands-on 	<ul style="list-style-type: none"> • Demonstration • Written examination • Oral questioning 	5hrs
		<ul style="list-style-type: none"> • Enumerate pre- 	<ul style="list-style-type: none"> • Lecture / discussion 	<ul style="list-style-type: none"> • Demonstration 	5hrs

Unit of Competency	Learning Outcomes	Learning Activities	Methodology	Assessment Method	Nominal Duration
		transplanting procedures • Demonstrate pre-transplanting procedures	• Demonstration • Video presentation • Power point presentation • Incomplete • Worksheet • Hands-on	• Written examination • Oral questioning	
4. Manage crop growth	4.1 Conduct nutrient management	• Identify / Define different assessment methods for soil fertility • Assess soil fertility using recommended assessment method/s	• Lecture-discussion • Hands-on • Video presentation • Demonstration • Power point presentation • Visual Aids • Field activity on proper soil sampling	• Demonstration • Written exam • Oral questioning • Interview	(Total - 105.5 hrs) 6 hrs
		• Differentiate organic fertilizers from Inorganic Fertilizers • Identify different fertilizer formulations available in the locality • Select appropriate kind of fertilizer	• Lecture-discussion • Video presentation • Power point presentation	• Demonstration • Written exam • Oral questioning • Interview	2 hrs
		• Determine way for computing fertilizer recommendations • Compute for fertilizer rate	• Lecture-discussion • Video presentation • Power point presentation	• Demonstration • Written exam • Oral questioning	2 hrs

Unit of Competency	Learning Outcomes	Learning Activities	Methodology	Assessment Method	Nominal Duration
		<ul style="list-style-type: none"> Enumerate the types and methods of fertilizer application Use knapsack sprayer Apply fertilizer according to recommendations 	<ul style="list-style-type: none"> Video presentation Lecture discussion Power point presentation Demonstration Hands-on 	<ul style="list-style-type: none"> Written exam Oral questioning Demonstration Interview 	4 hrs
	4.2 Perform water management	<ul style="list-style-type: none"> Identify water assessment methods Discuss the water requirements of the different growth stages Enumerate indicators of water stress Explain water requirements in different ecosystems Assess water need based on the result of assessment 	<ul style="list-style-type: none"> Lecture Discussion Actual field visit and observation Power point presentation Demonstration Hands-on 	<ul style="list-style-type: none"> Written exam Interview Demonstration Oral questioning 	4 hrs
		<ul style="list-style-type: none"> Enumerate the types and methods of fertilizer application Use knapsack sprayer Apply fertilizer according to recommendations 	<ul style="list-style-type: none"> Video presentation Lecture-discussion Power point presentation Demonstration Hands-on 	<ul style="list-style-type: none"> Written exam Oral questioning Demonstration Interview 	4 hrs
		<ul style="list-style-type: none"> Identify and discuss different water management strategies Apply appropriate water management strategy/ies 	<ul style="list-style-type: none"> Lecture discussion Field visit Demonstration Hands-on PPT presentation Video presentation 	<ul style="list-style-type: none"> Written exam Interview Demonstration Oral questioning 	5hrs

Unit of Competency	Learning Outcomes	Learning Activities	Methodology	Assessment Method	Nominal Duration
		<ul style="list-style-type: none"> • Enumerate/Explain different water conservation methods and their applications • Enumerate and describe different water impounding techniques • Apply water conservation methods 	<ul style="list-style-type: none"> • Lecture-discussion • Video presentation; • Field visit • Hands-on • Demonstration 	<ul style="list-style-type: none"> • Written exam • Interview • Demonstration • Oral questioning 	6 hrs
	4.3 Carry out pest management	<ul style="list-style-type: none"> • Identify different types of rice and corn pests and diseases • Enumerate and discuss methods of assessing occurrence of pests and diseases • Assess occurrence of pests and disease in the rice field and cornfield 	<ul style="list-style-type: none"> • Lecture-discussion • Field visit/ observation • PPT presentation • Video presentation • Demonstration • Hands-on 	<ul style="list-style-type: none"> • Written exam • Interview • Demonstration • Oral questioning 	7 hrs
		<ul style="list-style-type: none"> • Identify different management options for a particular pest/disease • Explain GAP on rice and corn pests and diseases management • Discuss IPM • Classification/identification of harmful and beneficial insects • Enumerate and explain FPA regulations on the use of chemicals • Wear PPE and practice OSHS 	<ul style="list-style-type: none"> • Lecture-discussion • Audio-visual aids video/power point presentations • Field visit and observation • Demonstration • Hands-on 	<ul style="list-style-type: none"> • Written exam • Interview • Demonstration • Oral questioning 	9 hrs

Unit of Competency	Learning Outcomes	Learning Activities	Methodology	Assessment Method	Nominal Duration
		<ul style="list-style-type: none"> • Apply pest and diseases management 			
		<ul style="list-style-type: none"> • Discuss the importance of regular field monitoring using AESA and other damage assessment techniques • Conduct regular field monitoring 	<ul style="list-style-type: none"> • Lecture-discussion • Audio-visual aids video/power point presentations • Field visit and observation • Demonstration • Hands-on 	<ul style="list-style-type: none"> • Written exam • Interview • Demonstration • Oral questioning 	6 hrs
		<ul style="list-style-type: none"> • Identify extent of crop damages and yield losses • Identify and apply the different preventive and control measures for occurrence of pests and diseases 	<ul style="list-style-type: none"> • Lecture-discussion • Audio-visual aids video/power point presentations • Field visit and observation • Demonstration • Hands-on 	<ul style="list-style-type: none"> • Written exam • Interview • Demonstration • Oral questioning 	5 hrs
	4.4 Conduct management of Abiotic stress	<ul style="list-style-type: none"> • Discuss the classification of abiotic stress <ul style="list-style-type: none"> ○ strong winds ○ extreme temperature ○ drought ○ flood/submergence ○ nutrient deficiency/toxicity ○ salinity/acidity/alkalinity • Identify assessment techniques • Assess presence of abiotic stresses 	<ul style="list-style-type: none"> • Lecture-discussion • Demonstration • Video presentation • Hands-on • Field visit 	<ul style="list-style-type: none"> • Written exam • Interview • Demonstration • Oral questioning 	9 hrs

Unit of Competency	Learning Outcomes	Learning Activities	Methodology	Assessment Method	Nominal Duration
		<ul style="list-style-type: none"> • Discuss different abiotic stress management • Discuss use of knapsack sprayer • Explain GAP on abiotic stress management • Explain FPA regulations for abiotic stress management • Wear PPE and practice OSHS • Carry –out abiotic stress management 	<ul style="list-style-type: none"> • Lecture-discussion • Demonstration • Video presentation • Hands-on • Field visit 	<ul style="list-style-type: none"> • Written Exam • Oral questioning • demonstration 	9 hrs
		<ul style="list-style-type: none"> • Discuss different remedial actions • Explain importance of proper documentation • Explain communication and coordination procedures • Prepare sample damage/calamity report • Carry-out remedial actions • Apply for crop insurance claim 	<ul style="list-style-type: none"> • Lecture-discussion • Demonstration • Video presentation • Hands-on • Field visit, • Role play 	<ul style="list-style-type: none"> • Written Exam • Interview • Oral questioning • demonstration 	4.5 hrs

	4.5 Conduct purification activity	<ul style="list-style-type: none"> • Explain selection criteria • Select area for seed purification activity 	<ul style="list-style-type: none"> • Lecture-discussion • Video presentation • Field visit 	<ul style="list-style-type: none"> • Written Exam • Interview • Oral questioning • Demonstration 	1.5 hrs
		<ul style="list-style-type: none"> • Describe the characteristics of off-types • Identify off-types in the field • Explain/discuss the importance and proper timing of roguing • Discuss roguing procedures • Explain GAP for roguing • Wear PPE and practice OSHS 5.9 Remove off-types 	<ul style="list-style-type: none"> • Lecture-discussion • Demonstration • Video presentation • Hands-on • Field visit, 	<ul style="list-style-type: none"> • Written Exam • Interview • Oral questioning • demonstration 	10 hrs
		<ul style="list-style-type: none"> • Enumerate disposal procedures <ul style="list-style-type: none"> ○ remove and carry ○ composting ○ feeds for livestock ○ remove and bury • Discuss environmental rules and regulations • Explain GAP on Agri-wastes disposal • Conduct proper disposal off-types 	<ul style="list-style-type: none"> • Lecture discussion • Field visit and observation • Hands-on • PPT presentation • Demonstration 	<ul style="list-style-type: none"> • Written Exam • Interview • Oral questioning • Demonstration 	5 hrs
		<ul style="list-style-type: none"> • Discuss harvest and post-harvest operations for seed production • Practice OSHS 	<ul style="list-style-type: none"> • Lecture-discussion • Video presentation • Hands-on • Field visit 	<ul style="list-style-type: none"> • Written Exam • Interview • Oral questioning 	6.5 hrs

		<ul style="list-style-type: none"> • Prepare sample documentation and record keeping • Conduct harvesting and post-harvesting operations for seed production activities 	<ul style="list-style-type: none"> • Demonstration 	<ul style="list-style-type: none"> • Demonstration 	
5. Conduct harvest and post-harvest operations	5.1 Carry out pre-harvest operations	<ul style="list-style-type: none"> • Enumerate physiological indicators of rice and corn crops maturity • Describe physical indicators of rice and corn crop maturity 	<ul style="list-style-type: none"> • Lecture-discussion • Power point presentation • Visual aids • Video presentation • Practicum • (Actual identification of physiological indicators in pictures) • Lecture-discussion • Power point presentation • Visual aids 	<ul style="list-style-type: none"> • Written examination • Oral questioning 	(Total -74 hrs) 2 hrs
		<ul style="list-style-type: none"> • Discuss and describe agronomic characters of different rice varieties 		<ul style="list-style-type: none"> • Written examination Oral questioning 	1hr

		<ul style="list-style-type: none"> • Explain the importance of record keeping • Identify the uses of different farm records • verify records for harvesting 	<ul style="list-style-type: none"> • Lecture-discussion • Video presentation • Power point presentation • Hands -on 	<ul style="list-style-type: none"> • Written examination • Oral questioning • Demonstration 	2.5hrs
		<ul style="list-style-type: none"> • Describe weather condition and its effect on harvestable crop • Explain Contingency Management Strategies for adverse weather condition • Monitor weather condition 	<ul style="list-style-type: none"> • Lecture-discussion • Power point presentation • Illustrations • Field demonstration/ visit • Photographs 	<ul style="list-style-type: none"> • Observation and oral questioning • Written examination 	3hrs
		<ul style="list-style-type: none"> • Explain recommended draining procedures before harvest including its importance • Drain the rice and corn field 	<ul style="list-style-type: none"> • Lecture-discussion • Power point presentation • Field visit • Hands-on • Video presentation • Hands- on 	<ul style="list-style-type: none"> • Written examination • Oral questioning • Demonstration 	5hrs
		<ul style="list-style-type: none"> • Identify the type of obstructions in the field • Remove obstructions from the rice and corn fields 	<ul style="list-style-type: none"> • Power point presentation • Video presentation • Practicum/ hands on 	<ul style="list-style-type: none"> • Written examination • Oral questioning • Demonstration 	6.5hrs
		<ul style="list-style-type: none"> • Identify the use of harvesting tools and materials • Prepare the harvesting tools and materials 	<ul style="list-style-type: none"> • Power point presentation • Video presentation • Practicum/hands-on 	<ul style="list-style-type: none"> • Written examination • Oral questioning 	5hrs

	5.2 Carry out harvesting activity	<ul style="list-style-type: none"> Describe harvesting process Enumerate methods of determining the right time to harvest Identify factors affecting grain quality at harvest Estimate yield Harvest rice and corn crops 	<ul style="list-style-type: none"> Lecture discussion Power point presentation Audio visual presentation Field visit with observation Demonstration Hands -on 	<ul style="list-style-type: none"> Demonstration Written examination Oral questioning 	2.5hrs
		<ul style="list-style-type: none"> Explain harvesting methods Discuss GAP for harvesting Implement appropriate harvesting methods 	<ul style="list-style-type: none"> Lecture-discussion Video presentation Field visit/practicum Power point presentation Demonstration 	<ul style="list-style-type: none"> Written examination Oral questioning Demonstration 	7.5hrs
		<ul style="list-style-type: none"> Describe the types and procedures of piling Pile harvested rice and corn 	<ul style="list-style-type: none"> Lecture discussion Demonstration Power point presentation Video presentation Hands-on 	<ul style="list-style-type: none"> Written examination Oral questioning Demonstration 	10 hrs
		<ul style="list-style-type: none"> Describe the recommended PPE for harvesting rice and corn 	<ul style="list-style-type: none"> Lecture discussion Demonstration Video/Power point presentation Field visit Hands- on 	<ul style="list-style-type: none"> Written examination Oral questioning Demonstration 	5 hrs
	5.3 Carry out postharvest activity	<ul style="list-style-type: none"> Illustrate and explain postharvest operations Perform post-harvest operations for rice and corn 	<ul style="list-style-type: none"> Lecture-discussion Video/power point presentation Hands on Role playing Demonstration Field visit Visual aids 	<ul style="list-style-type: none"> Written examination Oral questioning Demonstration 	2 hrs

		<ul style="list-style-type: none"> • Identify the different postharvest equipment and facilities for rice and corn • Describe the uses of the different postharvest equipment & facilities for rice and corn • Enumerate causes of grain damage and yield losses • Explain proper monitoring procedures on the use of postharvest equipment and operations • Monitor the use and operation of the postharvest equipment and facilities 	<ul style="list-style-type: none"> • Lecture discussion • Video/ power point presentation • Practicum /hands on • Field visit with observation • Demonstration 	<ul style="list-style-type: none"> • Written examination • Oral questioning • Demonstration 	10hrs
		<ul style="list-style-type: none"> • Describe appropriate storage area • Discuss the procedures of storing and stacking • Demonstrate proper storing and stacking bags of palay and milled rice and corn 	<ul style="list-style-type: none"> • Lecture-discussion • Video/power point presentation • Role playing • Field visit • Hands-on 	<ul style="list-style-type: none"> • Written examination • Oral questioning • Demonstration 	3.5 hrs
		<ul style="list-style-type: none"> • Discuss handling and packaging of palay and milled rice • FIFO • Apply proper handling and packaging of palay and milled rice 	<ul style="list-style-type: none"> • Lecture discussion • Video/power point presentation • Hands – on Demonstration 	<ul style="list-style-type: none"> • Written examination • Interview • Demonstration • Oral questioning 	2 hrs

		<ul style="list-style-type: none"> • Describe the recommended practices in monitoring storage pests & diseases • Monitor storage pests and diseases • Prepare sample monitoring report • Report infestation to proper authorities 	<ul style="list-style-type: none"> • Lecture discussion • Video/power point presentation • Practicum • Demonstration • Field visit 	<ul style="list-style-type: none"> • Written examination • Interview • Demonstration • Oral questioning 	2 hrs
		<ul style="list-style-type: none"> • Explain the principles of marketing • Discuss various marketing strategies for palay, milled rice and corn • Identify several market outlets for palay, milled rice and corn in the locality • Negotiate with a palay and milled rice and corn trader • Market palay and milled rice and corn 	<ul style="list-style-type: none"> • Lecture discussion • Video/power point presentation • Role Playing • Demonstration 	<ul style="list-style-type: none"> • Written examination • Interview • Demonstration • Oral questioning 	4.5 hrs