

CORE COMPETENCIES

413 Hours

General

Unit of Competency	Learning Outcomes	Methodology	Assessment Approach
1. Undertake preparation of land for agricultural crop production	1.1 Prepare for cultivation	▪ Discussion	▪ Written exam ▪ Actual ▪ Designing
	1.2 Prepare the cultivating equipment	▪ Discussion ▪ Demonstration	▪ Written exam ▪ Actual ▪ Demonstration ▪ Observation
	1.3 Cultivate soil	▪ Discussion ▪ Demonstration	▪ Written exam ▪ Actual ▪ Demonstration ▪ Observation
	1.4 Prepare site for planting	▪ Demonstration	▪ Actual ▪ Demonstration ▪ Questioning
	1.5 Complete land preparation operations	▪ Demonstration	▪ Actual ▪ Demonstration ▪ Questioning
2. Implement a post-harvest program	2.1 Prepare for implementation of post-harvest operations	▪ Discussion	▪ Written exam
	2.2 Co-ordinate post-harvest work	▪ Demonstration	▪ Actual ▪ Demonstration ▪ Questioning
	2.3 Implement post-harvest treatments	▪ Demonstration	▪ ctual ▪ Demonstration ▪ Questioning
	2.4 Implement hazardous waste disposal guidelines	▪ Demonstration	▪ Actual ▪ Demonstration ▪ Questioning
	2.5 Implement packaging requirements of produce	▪ Demonstration	▪ Actual ▪ Demonstration ▪ Questioning
	2.6 Implement storage requirements of produce	▪ Demonstration	▪ Demonstration with Questioning
3. Implement a plant nutrition program	3.1 Prepare for implementation of the plant nutrition program	▪ Demonstration ▪ Field visit	▪ Direct Observation and Interview
	3.2 Monitor soil pH	▪ Demonstration ▪ Simulation	▪ Direct Observation and Interview
	3.3 Determine nutritional problems in plants	▪ Demonstration ▪ Simulation	▪ Direct Observation and Interview
	3.4 Prepare to use fertilizers	▪ Demonstration ▪ Simulation	▪ Direct Observation and Interview

Unit of Competency	Learning Outcomes	Methodology	Assessment Approach
	3.5 Prepare application equipment	<ul style="list-style-type: none"> ▪ Demonstration ▪ Simulation 	<ul style="list-style-type: none"> ▪ Direct Observation and Interview
	3.6 Apply specific products at appropriate rates	<ul style="list-style-type: none"> ▪ Demonstration ▪ Simulation 	<ul style="list-style-type: none"> ▪ Direct Observation and Interview
4. Control weeds	4.1 Assess weed infestation	<ul style="list-style-type: none"> ▪ Demonstration ▪ Simulation 	<ul style="list-style-type: none"> ▪ Direct Observation and Interview
	4.2 Plan the implementation of control measures	<ul style="list-style-type: none"> ▪ Demonstration ▪ Simulation 	<ul style="list-style-type: none"> ▪ Direct Observation and Interview
	4.3 Implement control measures	<ul style="list-style-type: none"> ▪ Demonstration ▪ Simulation 	<ul style="list-style-type: none"> ▪ Direct Observation and Interview
	4.4 Monitor control weeds	<ul style="list-style-type: none"> ▪ Demonstration ▪ Simulation 	<ul style="list-style-type: none"> ▪ Direct Observation and Interview
5. Prepare and apply chemicals	5.1 Determine the need for chemical use	<ul style="list-style-type: none"> ▪ Demonstration ▪ Simulation 	<ul style="list-style-type: none"> ▪ Direct Observation and Interview
	5.2 Prepare appropriate chemical	<ul style="list-style-type: none"> ▪ Demonstration ▪ Simulation 	<ul style="list-style-type: none"> ▪ Direct Observation and Interview
	5.3 Prepare to use chemicals according to the label and MSDS	<ul style="list-style-type: none"> ▪ Demonstration ▪ Simulation 	<ul style="list-style-type: none"> ▪ Direct Observation and Interview
	5.4 Apply chemicals	<ul style="list-style-type: none"> ▪ Demonstration ▪ Simulation 	<ul style="list-style-type: none"> ▪ Direct Observation and Interview
	5.5 Clean up following chemical application	<ul style="list-style-type: none"> ▪ Demonstration ▪ Simulation 	<ul style="list-style-type: none"> ▪ Direct Observation and Interview
	5.6 Record application details	<ul style="list-style-type: none"> ▪ Demonstration ▪ Simulation 	<ul style="list-style-type: none"> ▪ Direct Observation and Interview

Agronomic

Unit of Competency	Learning Outcomes	Methodology	Assessment Approach
1. Establish agronomic crops	1.1 Prepare machinery and equipment for use	<ul style="list-style-type: none"> ▪ Demonstration ▪ Simulation 	<ul style="list-style-type: none"> ▪ Direct Observation and Interview
	1.2 Prepare for agronomic crop establishment		
	1.3 Sow the crop		
	1.4 Complete seeding operations		

Unit of Competency	Learning Outcomes	Methodology	Assessment Approach
2. Undertake agronomic crop maintenance activities	2.1 Assess agronomic crop condition, growth and requirements 2.2 Apply fertilizer and amendments 2.3 Monitor crop condition, growth and requirements 2.4 Complete cleaning and hygiene operations	▪ Demonstration ▪ Simulation	▪ Direct Observation ▪ Interview
3. Undertake agronomic crop harvesting activities	3.1 Prepare to harvest agronomic crops 3.2 Prepare the harvesting equipment 3.3 Harvest crops 3.4 Complete harvesting operations	▪ Demonstration ▪ Simulation	▪ Direct Observation ▪ Interview
4. Save, prepare and store agricultural seed	4.1 Select seed from agricultural crops 4.2 Evaluate and grade seed 4.3 Store seed 4.4 Collect and deliver seed	▪ Demonstration ▪ Simulation	▪ Direct Observation ▪ Interview
5. Implement vertebrate pest control program	5.1 Assess requirements for pest control 5.2 Prepare to implement control program 5.3 Control vertebrate pests 5.4 Complete control program	▪ Demonstration ▪ Simulation	▪ Direct Observation ▪ Interview

3.2 TRAINING DELIVERY

The delivery of training should adhere to the design of the curriculum. Delivery should be guided by the 10 basic principles of competency-based TVET.

- The training is based on curriculum developed from the competency standards;
- Learning is modular in its structure;
- Training delivery is individualized and self-paced;
- Training is based on work that must be performed;
- Training materials are directly related to the competency standards and the curriculum modules;
- Assessment is based in the collection of evidence of the performance of work to the industry required standard;
- Training is based both on and off-the-job components;
- Allows for recognition of prior learning (RPL) or current competencies;
- Training allows for multiple entry and exit; and
- Approved training programs are Nationally Accredited

The competency-based TVET system recognizes various types of delivery modes, both on and off-the-job as long as the learning is driven by the competency standards specified by