

EVIDENCE GUIDE

This provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge and range.

1. Critical aspects of competency	Assessment requires evidence that the candidate: 1.1 Classified animals 1.2 Identified and illustrated animal anatomy 1.3 Identified and illustrated animal organ systems 1.4 Identified and illustrated animal physiological processes 1.5 Illustrated how body organs are adapted to perform physiological processes
2. Resource implication	The following resources should be provided: Access to relevant workplace where assessment can take place. Appropriately simulated environment where assessment can take place Material relevant to the proposed assessment activities or tasks
3. Method of assessment	Competency in this unit may be assessed through: Practicals Projects Written tests Questionnaires Oral questioning
4. Context of assessment	4.1 Competency elements must be assessed in a safe working environment 4.2 Assessment may be conducted in a workplace or simulated environment
5. Guidance information for assessment	Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended.

OPERATE FARM MACHINERY

UNIT CODE: 0716 441 07A

TVET CDACC UNIT CODE: AGR/CU/AP/CC/01/5/MA

UNIT DESCRIPTION

This unit equips trainees with knowledge and skills to operate farm power and machinery. It involves operating hand tools and equipment, operating tillage machinery, operating planting machinery, operating crop protection machinery, operating harvesting machinery and operating agro-processing machinery.

ELEMENTS AND PERFORMANCE CRITERIA

ELEMENT These describe the key outcomes which make up workplace function .	PERFORMANCE CRITERIA These are assessable statements which specify the required level of performance for each of the elements. <i>Bold and italicized terms are elaborated in the range.</i>
1. Operate hand tools and equipment	1.1 <i>Hand tools</i> and <i>equipment</i> are assembled as per work requirement 1.2 Hand tools and equipment are utilized as per work procedure 1.3 Hand tools and equipment are serviced as per work procedure 1.4 Hand tools and equipment are stored as per work procedure
2. Operate tillage machinery	2.1 <i>Personal protective equipment</i> is worn as per safety procedures 2.2 <i>Tillage machinery</i> is operated as per work procedures 2.3 Tillage machinery is maintained as per work procedure 2.4 Tillage machinery is stored as per work procedure

3. Operate planting machinery	<p>3.1 Personal protective equipment is worn as per safety procedure</p> <p>3.2 Planting machinery is calibrated as per work requirement</p> <p>3.3 Planting machinery is operated as per work procedure</p> <p>3.4 Planting machinery is maintained as per work procedure</p> <p>3.5 Planting machinery is stored as per work procedure</p>
4. Operate crop protection machinery	<p>4.1 Personal protective equipment is worn as per safety procedure</p> <p>4.2 Crop protection machinery calibrated as per work requirement</p> <p>4.3 Crop protection machinery is operated as per work requirement</p> <p>4.4 Crop protection machinery is maintained as per work procedure</p> <p>4.5 Crop protection machinery is stored as per work requirement</p>
5. Operate harvesting machinery	<p>5.1 Personal protective equipment is worn as per safety procedures</p> <p>5.2 Harvesting machinery is operated as per work procedures</p> <p>5.3 Harvesting machinery is maintained as per work requirement</p> <p>5.4 Harvesting machinery is stored as per work requirement</p>
6. Operate Agro-processing machinery	<p>6.1 Personal protective equipment is worn as per safety procedures</p> <p>6.2 Agro-processing machinery is operated as per work requirement</p> <p>6.3 Agro-processing machinery is maintained and</p>

	repaired as per work requirement 6.4 Agro-processing machinery is stored as per work requirement
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RANGE

VARIABLE	RANGE
1. PPEs include but not limited to:	<ul style="list-style-type: none"> • Googles • Ear muffs • Safety boots • Nose mask • Gloves • Overall • Dust coat
2. Hand tools and equipment include but not limited to:	<ul style="list-style-type: none"> • Garden tools and equipment <ul style="list-style-type: none"> Panga Slasher Spade Rake Secateurs Fork Jembe Dibber • Workshop tools and equipment <ul style="list-style-type: none"> Jack plane Hand saw Hammer Hand drill Tape measure Files • Carpentry tools and equipment <ul style="list-style-type: none"> Hand saw

VARIABLE	RANGE
	<p>Hammer</p> <p>Chisel</p> <p>Try square</p> <p>Coping saw</p> <ul style="list-style-type: none"> • Masonry tools and equipment <p>Plumb line</p> <p>Brick hammer</p> <p>Cold chisel</p> <p>Masons level</p> <p>Wheelbarrow</p> <p>Masonry saw</p> <p>Masonry tape measure</p> <ul style="list-style-type: none"> • Livestock handling tools and equipment <p>Burdizzo</p> <p>Tooth clipper</p> <p>Ear notcher</p> <p>Hoof trimmer</p> <p>Elastrator</p> <p>Shears</p> <p>Halter</p>
<p>3. Tillage machinery include but not limited to:</p>	<p>1 Ploughs</p> <ul style="list-style-type: none"> • Disc plough • Mouldboard plough • Ox- plough <p>2.2.2 Harrows</p> <ul style="list-style-type: none"> • Disc harrow • Spring tine harrow <p>2.2.3 Tillers</p> <ul style="list-style-type: none"> • Chisel plough

VARIABLE	RANGE
	<ul style="list-style-type: none"> • Subsoilers •
4. Hand tools and equipment	<ul style="list-style-type: none"> • Cultivation tools and equipment • Harvesting tools and equipment • Crop protection tools and equipment
5. Planting machinery include but not limited to:	<ul style="list-style-type: none"> • Seed drills • Planters • Ridgers • Fertilizer distributors • Manure spreaders
6. Crop protection machinery include but not limited to:	<ul style="list-style-type: none"> • Sprayers • Dusters
7. Harvesting machinery include but not limited to:	<ul style="list-style-type: none"> • Balers • Mowers • Combined harvesters • Potato harvester • Threshers
8. Processing machinery include but not limited to:	<ul style="list-style-type: none"> • Mills • Grinders • Shellers • Dryers • Elevator conveyors
9. Secondary tillage machinery	<ul style="list-style-type: none"> • Harrows • rotary tillers
10. Sowing machinery	<ul style="list-style-type: none"> • seed drill • planters • potato planter
11. Crop protection	<ul style="list-style-type: none"> • boom sprayer • dusters