

OPERATE FARM MACHINERY

ISCED UNIT CODE: 0811 551 07A

TVETCDACC UNIT CODE: AG/OS/PN/CC/04/6/MA

UNIT DESCRIPTION

This unit equips trainees with knowledge and skills to operate farm power and machinery. The unit entails description of the types and sources of farm power, demonstration of the working principles of the internal combustion engine and tractor systems and maintenance of the tractor and tractor systems. It also involves operation and maintenance of farm tools, equipment and machinery.

ELEMENTS AND PERFORMANCE CRITERIA

ELEMENT	PERFORMANCE CRITERIA
These describe the key outcomes which make up workplace function .	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 Hand tools and equipment 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 Personal protective equipment is worn as per safety procedures 2.2 Tillage machinery 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	3.1 Personal protective equipment is worn as per safety procedure 3.2 Planting machinery is calibrated as per work requirement 3.3 Planting machinery is operated as per work procedure 3.4 Planting machinery is maintained as per work procedure 3.5 Planting machinery is stored as per work procedure
4. Operate crop protection	4.1 Personal protective equipment is worn as per safety

machinery	<p>procedure</p> <p>4.2 <i>Crop protection machinery</i> 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 <i>Agro-processing machinery</i> is operated as per work requirement</p> <p>6.3 Agro-processing machinery is maintained and repaired as per work requirement</p> <p>6.4 Agro-processing machinery is stored as per work requirement</p>

RANGE

This section provides work environments and conditions to which the performance criteria apply. It allows for different work environment and situations that will affect performance.

Variable	Range
1. Personal protective equipment includes but not limited to:	<ul style="list-style-type: none"> • Eye protection equipment • Hearing protection equipment • Feet protection equipment • Respiratory protection equipment • Gloves • Full body suits
2. Hand tools and equipment include but not limited to:	<ul style="list-style-type: none"> • Garden tools and equipment • Livestock handling tools and equipment

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