

ESTABLISHING AGRICULTURAL CROPS

UNIT CODE: AGR/CU/EXT/CR/01/4/A

RELATIONSHIP TO OCCUPATIONAL STANDARDS:

This unit addresses the unit of competency: establish agricultural crop

DURATION OF UNIT: 120 hours

UNIT DESCRIPTION

This unit specifies the competencies required to establish agricultural crop. It involves This unit describes the competencies required by a trainee in order to competently establish agricultural crop.it involves, preparing the land, establishing the crop, managing the crop and completing crop establishment

SUMMARY OF LEARNING OUTCOMES

1. Prepare the land
2. Establish the crop
3. Manage the crop
4. Complete crop establishment

Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcome	Content	Methods of assessment
1. Prepare the land	<ul style="list-style-type: none">• Introduction to land preparation:• Characteristics of crops• Farm plan (choice of crop)• Condition of the land (virgin, under fallow, under previous crop).• Stages of land preparation (clearing, primary, secondary and tertiary)• Land preparation tools. Equipment and materials• Farm power	<ul style="list-style-type: none">• Oral questions• Demonstration• Third party report• Observation• Written tests

	<ul style="list-style-type: none"> • Soil analysis • Soil conservation • Farm tools and equipment (types, use, repair and maintenance) • forms of agriculture • Soil sampling (definition, methods and procedure) 	
2. Establish the crop	<ul style="list-style-type: none"> • Timing for planting (factors to consider e.g. ecological zone) • Certified planting materials (seeds and vegetative propagation materials) • Soil fertility (definition, nutrients, role in plant growth, deficiency symptoms and correction of deficiency) • Planting methods • Planting tools, equipment and machinery (types, use, repair and maintenance) • Spacing, depth and seed rate requirement • Phyto-sanitary requirements • Good Agricultural Practices • Emerging farming technologies. • Gapping and thinning • Soil and water conservation methods • Irrigation methods 	<ul style="list-style-type: none"> • Oral questions • Demonstration • Third party report • Observation • Written tests
3. Manage the crop	<ul style="list-style-type: none"> • weeds and pest control methods: <ul style="list-style-type: none"> • Definition • Types • Economic importance • Weed control methods 	<ul style="list-style-type: none"> • Oral questions • Demonstration • Third party report • Observation • Written tests

	<ul style="list-style-type: none"> • Crop management tools, equipment and machines (type, use, repair and maintenance) • Gapping and thinning • Soil and water conservation methods • Irrigation methods 	
4. Complete crop establishment	<ul style="list-style-type: none"> • Farm records (types, uses and qualities) • Environmental management • Planting tools, equipment and machines (cleaning, servicing and storage.) 	<ul style="list-style-type: none"> • Oral questions • Demonstration • Third party report • Observation • Written tests

Suggested methods of instructions

- Practical demonstration of tasks by trainer.
- Practice by trainees.
- Discussions
- Questions & answers
- Observations, comments and corrections by trainers.
- Instructor led facilitation of theory.

Recommended Resources

- Workplace policy manual
- Planting manuals.
- National Environmental Management Authority (NEMA) regulations
- Soil analysis reports
- Farm power
- Machine/equipment manufacturer's specifications and instructions.
- Environmental Management and Coordination Act (EMCA) 2015
- A piece of arable land depending on the number of trainees
- Tools and equipment:
 - Fertilizer applicators
 - Fork jembe
 - Harrows
 - Jembe
 - Mattock

- Ox-drawn plough
- Panga
- Planters
- Ploughs
- PPEs
- Rake
- Shallow weeder
- Slasher
- Soil auger
- Spade
- Tape measure
- Tractor and trailer
- Weighing scale
- Wheelbarrow
- Materials:
 - Chemicals

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