

071906T4AEN

AGRICULTURAL ENGINEERING TECHNICIAN LEVEL 6

ENG/OS/AGR/CR/06/6/A

Perform Irrigation Activities

Nov/Dec 2024



**TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION
COUNCIL (TVET CDACC)**

PRACTICAL ASSESSMENT

Time: 3 HOURS

INSTRUCTIONS TO CANDIDATE:

1. You are required to perform the following tasks
 - i. TASK 1: Set up a centrifugal Pump
 - ii. TASK 2: Perform a centrifugal Pump priming
 - iii. TASK 3: Install sprinkler irrigation System on a piece of land with the following specification and test for operation.
 - Riser pipe -1 meter
 - 4 Sprinklers with an overlap of 30cm on a piece of land 6m x 6m
2. You have been provided with the following resources for the practical tasks:
 - 1 HP centrifugal pump
 - 1" complete pressure Gauge
 - 1" complete gate valve
 - Water source
 - Electricity supply
 - Electrical wire (1.0) single

- Tool box with screw drivers
- Electricity insulating tape
- 1" PVC pipe
- $\frac{3}{4}$ " PVC pipe
- 1" Tee joint
- 1" to $\frac{3}{4}$ " reducer
- $\frac{1}{2}$ "PVC pipe
- $\frac{1}{2}$ "Sprinkler device with connectors 4 pieces
- Hacksaw blade
- PVC glue 500 grams
- 1" non-return valve
- Tape measure
- 8 Pegs
- Writing material
- 4 Posts
- $\frac{3}{4}$ inch end plug
- Rubber band