

051106T4APB

APPLIED BIOLOGY LEVEL 6

APB/OS/AB/CR/05/6/A

Carry out Ecological and Soil Studies

March/April 2025



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

PRACTICE

TIME: 3 HOURS

INSTRUCTIONS TO CANDIDATE:

1. You are required to perform the following tasks:
 - a) TASK 1: Investigate the relative proportions of solid particles in a soil sample.
 - b) TASK 2: Determine the soil pH.
 - c) TASK 3: Identify the adaptive features of organisms and predict their ecosystems.
2. You have been provided with the following resources for the practical tasks:

• Gloves (for handling the soil)	• sample A
• Soil samples (5 different soil samples)	• sample B
	• sample C

- D1
- D2
- Distilled water in a wash bottle
- Test-tube
- Test tube rack
- 500 cm³ measuring cylinder
- Spatula
- Stirring rod or spoon
- Beaker or jar
- pH meter or pH test strips
- pH probe (if using a pH meter)
- Mortar and pestle
- Adhesive labels
- Disposal bin
- specimen E)
- Specimen F
- specimen G
- specimen H
- Cotton wool/tissue paper
- Mask
- Flat Closed shoes
- Lab coat