

091405T4SLT

SCIENCE LABORATORY TECHNICIAN LEVEL 5

SLT/OS/SL/CR/03/5/A

Apply Chemistry Techniques

Nov/Dec 2024



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

PRACTICE

Time: 1 ½ Hours

INSTRUCTIONS TO CANDIDATE:

1. You are required to perform the following tasks
 - i. Prepare 250ml of 0.05M Sodium Oxalate solution ($\text{Na}=23, \text{C}=12, \text{O}=16$)
 - ii. Use 0.05M Sodium Oxalate solution prepared in (i) above to determine the molarity of acidified Potassium Permanganate provided in moles per liter
2. You have been provided with the following resources for the practical tasks:
 - Sodium oxalate ($\text{Na}_2\text{C}_2\text{O}_4$)
 - Freshly prepared acidified potassium permanganate solution
 - Weighing balance
 - 250ml volumetric flask
 - A burette (50ml)

- A pipette (25ml)
- A retort stand and clamp
- Tripod stand and wire gauze
- A white tile
- Two 250ml conical flasks
- Two 250ml or 500 ml beakers
- Three labels
- Stirring rod
- Pipette filler
- Wash bottle
- Distilled water
- Tap water (running)
- Working laboratory bench
- Spatula
- A filter funnel
- Bunsen burner or water bath
- Filter papers
- Hand gloves

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