

091405T4S LT

SCIENCE LABORATORY TECHNICIAN LEVEL 5

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

Apply Chemistry Techniques

July/August 2025.



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

**PRACTICAL ASSESSMENT**

**Time: 3 HOURS**

**INSTRUCTIONS TO CANDIDATE:**

1. You are required to perform the following tasks:

**Task I:** Prepare 100mls of 0.1M Potassium hydroxide solution.  
Label as Solution X. (K=39, O=16, H=1)

**Task II:** Standardize Solution Y with solution X. Determine Molarity of Solution Y.

2. You are provided with the following resources to carry out the tasks:

- Hydrochloric acid of unknown concentration **labeled Y**.
- An Electronic weighing balance (0.01g)
- A burette( 50cm<sup>3</sup>)
- Pipette (25cm<sup>3</sup>)
- 1g Potassium hydroxide pellets.
- Funnel
- 100mls measuring cylinder
- Dropper
- Wash bottle
- Distilled water
- Spatula
- Weighing boat
- Stirring rod
- Retort stand
- White tile
- 3 conical flasks
- 100mls volumetric flask
- One 250msl beakers
- Labels
- Pipette filler
- phenolphthalein Indicator
- Gloves
- Mask