

091406T4SLT

SCIENCE LABORATORY TECHNOLOGY LEVEL 6

SLT/OS/SL/CR/03/6/A

Apply Chemistry Techniques

Nov/Dec 2024



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

PRACTICAL ASSESSMENT

RS

INSTRUCTIONS TO CANDIDATE

1. You are required to perform the following tasks
 - i. Prepare 25cm^3 of 0.5M HCl from 1M HCl
 - ii. Determine the molar heat of neutralization of HCl using 25cm^3 0.5M HCl and 25cm^3 of 0.5M NaOH
(Specific heat capacity of solution = $4200\text{J Kg}^{-1}\text{ K}^{-1}$, Density of solution = 1gcm^{-3})
2. You have been provided with the following resources for the practical tasks:

• 1M HCl solution	• Three labels
• 0.5M NaOH solution	• Stirring rod
• Measuring cylinder (25ml or 50ml)	• Wash bottle
• Thermometer (0-100°C)	• Distilled water
• Two 250ml plastic beakers	• Hand gloves
	• Working laboratory bench

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