

Specification of Competency Standards
for the Testing, Inspection and Certification Industry
Unit of Competency

Functional Area - Testing Operations

Title	Handle chemicals, solutions and reagents
Code	105798L3
Range	This unit of competency (UoC) covers the abilities to handle chemicals, solutions and reagents safely in testing laboratories, workplace or work sites and work safely at all times to protect oneself and other people during daily operation.
Level	3
Credit	2 (For Reference Only)
Competency	<p>Performance Requirements</p> <p>1. Possess knowledge of chemical hazards and safety precautions in handling chemicals</p> <ul style="list-style-type: none"> • Identify chemical hazards and safety measures for handling chemicals. • Describe various ways of chemicals entering human bodies. • Classify general chemical substances from chemical labels and risk symbols according to local regulatory requirements and common international standards, e.g. codes and standards of National Fire Protection Association (NFPA). • Describe the use of personal protective clothing and equipment for handling hazardous chemical substances. • Extract safety information from the chemical labels, risk symbols, and material safety data sheet (MSDS). • Describe the procedures for handling incidents involving chemicals including chemical spills. <p>2. Handle chemicals, solutions and reagents</p> <ul style="list-style-type: none"> • Use appropriate personal protective clothing and equipment to handle chemicals. • Use fume cupboard to handle toxic and other hazardous chemicals properly. • Follow chemical handling procedures when carrying out work tasks. • Safely store, transport and dispose of chemicals, solutions and reagents properly to avoid contamination and accidents. • Minimise the impact to the environment during the disposal of chemicals and reagents. • Implement the established procedures for handling chemical incidents, e.g. chemical spill control and cleanup. • Identify, report and record incident and emergency situations according to standard operating procedures. <p>3. Exhibit professionalism</p> <ul style="list-style-type: none"> • Observe chemical safety rules and follow procedures to handle chemicals and incidents. • Maintain personal safety and protect other people during daily operation in the laboratory, workplace or work sites.
Assessment Criteria	<p>The integrated outcome requirements of this UoC are the abilities to:</p> <ul style="list-style-type: none"> • handle chemicals, solutions and reagents safely to prevent chemical hazards and accidents, • handle, report and record chemical incidents (e.g. chemical spills) appropriately according to the standard operating procedures, • work safely at all times to protect oneself and other people during daily operation in the laboratory, workplace or worksites.
Remark	