Title	**Work safely in a chemical laboratory**		
Level	**4**	**Credits**	**3**

Purpose	This unit standard is for any person working in a chemical laboratory. People credited with this unit standard are able to: demonstrate knowledge of chemical hazards; and follow chemical laboratory procedures for health and safety practices.

Classification	Science > Science - Core

Available grade	Achieved

Guidance Information

1 All work must be carried out in accordance with the quality management system, documented protocol system or Standard Operating Procedures (SOP) acceptable in a commercial or research laboratory.

2 Health and Safety practices must conform to Australian/New Zealand Standard AS/NZS 2243 – *Safety in Laboratories* Parts 1, 2, 3, 7 and 10 available at http://www.standards.co.nz.

3 Legislation applicable to this unit standard includes:
Health and Safety at Work Act 2015;
Hazardous Substances and New Organisms Act 1996.

4 Glossary
Laboratory procedures refer to documented systems or processes of operation which may be found in a SOP manual, quality management system, or in protocol system documentation. These procedures are external and/or internal laboratory requirements governing laboratory work.

5 Recommended for entry: Unit 497, *Demonstrate knowledge of workplace health and safety requirements*; and Unit 26117, *Work safely in a science laboratory*.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of chemical hazards.

Range chemical hazards include – explosive, flammable, oxidising, toxic, corrosive, ecotoxic, radioactive, acids, alkalis, solvents, compressed gases; evidence of one example for each hazard is required.

Performance criteria

1.1 Information relevant to chemical hazard management is sourced.

Range container labelling, material safety data sheets, reference documents, databases.

1.2 The hazard is described in terms of how it is managed in accordance with laboratory procedures and/or manufacturer's instructions.

1.3 The hazard is described in terms of its effects on health and safety in the laboratory.

1.4 Potentially hazardous procedures, reactions, and storage incompatibilities are identified in accordance with laboratory procedures.

Outcome 2

Follow chemical laboratory procedures for health and safety practices.

Performance criteria

2.1 Procedures defining health and safety practices are identified as they relate to a chemical laboratory.

2.2 Ability to follow safe working practices is demonstrated in accordance with laboratory procedures.

Range safe handling techniques, storage, clean-up, disposal.

2.3 Incidents and accidents relating to health and safety are managed, reported, and documented in accordance with laboratory procedures.

This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	24 September 1996	31 December 2014
Revision	2	19 February 1998	31 December 2014
Review	3	23 November 1999	31 December 2014
Review	4	22 September 2004	31 December 2014
Review	5	21 May 2010	31 December 2025
Rollover	6	27 January 2015	31 December 2025
Review	7	27 September 2018	31 December 2025
Review	8	30 November 2023	31 December 2025

Consent and Moderation Requirements (CMR) reference	0113

This CMR can be accessed at http://www.nzqa.govt.nz/framework/search/index.do.