

Title	Manage hazardous substances compliance in a science laboratory		
Level	6	Credits	8

Purpose	<p>This unit standard is designed for a technician working in a science laboratory.</p> <p>People credited with this unit standard are able to: plan hazardous substances management for a science laboratory; and audit a science laboratory for compliance with hazardous substances legislation.</p>
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Classification	Science > Science - Core
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Available grade	Achieved
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Prerequisites	Unit 8467, <i>Work safely in a chemical laboratory</i> , or demonstrate equivalent knowledge and skills.
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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> and <http://infostore.saiglobal.com/store>.
- 3 Legislation applicable to this unit standard includes:
 - Health and Safety at Work Act 2015;
 - Hazardous Substances and New Organisms Act 1996;
 - Radiation Safety Act 2016;
 - Resource Management Act 1991.
- 4 Glossary

Hazardous substances refer to substances:

 - a with one or more of the following intrinsic properties:
 - explosiveness, flammability, a capacity to oxidise, corrosiveness, toxicity (including chronic toxicity), ecotoxicity (with or without bioaccumulation), radioactivity; and/or
 - b which on contact with air or water (other than air or water where the temperature or pressure has been artificially increased or decreased) generate a substance with any one or more of the properties specified in paragraph (a) of this definition.

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 20886, *Demonstrate knowledge of hazardous substances in science laboratories and related legislation.*

Outcomes and performance criteria

Outcome 1

Plan hazardous substances management for a science laboratory.

Performance criteria

- 1.1 Planning identifies the procedure for identifying hazards associated with chemicals.
- 1.2 Planning identifies situations which may cause exposure.
- 1.3 Current chemical hazard management procedures are assessed for compliance with current legislation and standards and consistency with conditions in the laboratory.
- 1.4 An emergency response plan for the laboratory is completed in accordance with current legislation and standards and conditions in the laboratory.
- Range evacuation, containment, notification procedures.
- 1.5 Planning identifies actions to be taken to control disposal and emission of hazardous substances from the laboratory in accordance with current legislation standards and conditions in the laboratory.

Outcome 2

Audit a science laboratory for compliance with hazardous substances legislation.

Performance criteria

- 2.1 An audit is completed in accordance with current standards, legislation, size, and purpose of the laboratory.
- 2.2 Corrective actions are documented in accordance with laboratory procedures.

Planned review date	31 December 2023
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	22 September 2004	31 December 2014
Review	2	21 May 2010	N/A
Rollover	3	27 January 2015	N/A
Review	4	27 September 2018	N/A

Consent and Moderation Requirements (CMR) reference

0113

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

Comments on this unit standard

Please contact NZQA National Qualifications Services nqs@nzqa.govt.nz if you wish to suggest changes to the content of this unit standard.