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|--------------|---|----------------|----------|
| <b>Title</b> | <b>Manage hazardous substances compliance in a science laboratory</b> |                |          |
| <b>Level</b> | <b>6</b>  | <b>Credits</b> | <b>8</b> |

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| <b>Purpose</b> | <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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| <b>Classification</b> | Science > Science - Core |
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| <b>Available grade</b> | Achieved |
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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.*

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## 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.

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**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       | 22 September 2004 | 31 December 2014         |
| Review       | 2       | 21 May 2010       | 31 December 2025         |
| Rollover     | 3       | 27 January 2015   | 31 December 2025         |
| Review       | 4       | 27 September 2018 | 31 December 2025         |
| Review       | 5       | 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>.