

Title	Write a scientific report based on results of a scientific process in an industrial or research laboratory		
Level	5	Credits	10

Purpose	<p>This unit standard is for people who wish to gain practical experience to show competency working in an industrial or research laboratory.</p> <p>People credited with this unit standard are, in an industrial or research laboratory, able to: apply scientific skills to execute a scientific process; record the data and results from the performance of a scientific process; and write a scientific report based on the recorded data and results of the scientific process performed.</p>
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Classification	Science > Science - Core
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Available grade	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) typically acceptable in a research or an industrial laboratory or with a technical International Accreditation New Zealand (IANZ) accredited agency or an equivalent accreditation.
- 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 This unit standard is designed to enable candidates to apply theory and skills; and to carry out, analyse, and evaluate processes, through practical experience. This unit standard requires candidates to have practical experience working in an industrial or research laboratory as a laboratory assistant or technician. The credits allocated to this unit standard reflect a recommended 100 hours in an industrial or research laboratory, of which 25 hours must be practical laboratory work.
- 5 The scientific report may be submitted on a template which the assessor has provided to the candidate.

- 6 A *scientific process* is one that is undertaken and/or observed at the industrial or research laboratory.
- 7 Glossary
Scientific skills are those that are undertaken and/or observed at the industrial or research laboratory.
Presentation is an oral presentation of the report to peers, not to exceed 10 minutes in length.
Laboratory procedures refer to documented systems or processes of operation, which may be found in a SOP manual, quality management system or protocol system documentation. These procedures are external and/or internal laboratory requirements governing laboratory work.

Outcomes and performance criteria

Outcome 1

Apply scientific skills to execute a scientific process in an industrial or research laboratory.

Performance criteria

- 1.1 Scientific skills are applied and the scientific process is performed in accordance with laboratory procedures.
- Range may include – written communication, oral communication, accuracy, quality, repeatability, equipment installation and maintenance, technical, computer technology, error anomalies.

Outcome 2

Record the data and results from the performance of a scientific process in an industrial or research laboratory.

Performance criteria

- 2.1 Data and results are recorded in accordance with laboratory procedures.
- Range may include but is not limited to – report log, notes, diary, summaries, data, references for the procedures, legislation, standards.

Outcome 3

Write a scientific report based on the recorded data and results of the scientific process performed in an industrial or research laboratory.

Performance criteria

- 3.1 The scientific report is written consistent with recorded data and results, and in accordance with the requirements of the industrial or research laboratory.
- Range clarity, relevance, succinctness, structure.

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	18 June 2010	31 December 2025
Rollover	2	27 January 2015	31 December 2025
Review	3	27 September 2018	31 December 2025
Review	4	30 November 2023	31 December 2025

Consent and Moderation Requirements (CMR) reference	0113
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.