

Title	Maintain chromatographs		
Level	4	Credits	4

Purpose	People credited with this unit standard are able to: – calibrate chromatographs; and – maintain and repair chromatographs.
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Classification	Industrial Measurement and Control > Industrial Measurement and Control - Maintenance
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Available grade	Achieved
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Guidance Information

- 1 This unit standard has been developed for learning and assessment in a workplace environment.
- 2 References
ANSI/ISA-51.1-1979 (R1993) *Process Instrumentation Terminology*;
Electricity Act 1992;
Electricity (Safety) Regulations 2010;
Health and Safety at Work Act 2015 and associated regulations;
ISSN 0114-0663, *New Zealand Electrical Codes of Practice*, available from Worksafe, <https://worksafe.govt.nz/>;
and all subsequent amendments and replacements.
- 3 Definitions
Industry requirements – includes all asset owner requirements; manufacturers' specifications; enterprise requirements which cover the documented workplace policies, procedures, specifications, and business requirements; and quality management requirements relevant to the workplace in which the assessment is carried out.
Maintain – planned activity during normal operation, to conserve or keep an item or piece of equipment in a state of repair and to ensure that this is done in a sustainable way.
Repair – unplanned and often urgent work that needs to be carried out to restore plant or equipment to normal operation.
- 4 Recommended skills and knowledge: Unit 28081, *Demonstrate knowledge of gas analytical measurement flame, gas, smoke, and heat detection*.

Outcomes and performance criteria

Outcome 1

Calibrate chromatographs.

Performance criteria

- 1.1 Explain and follow safe work procedures.
Range may include but is not limited to – isolation, pressure.
- 1.2 Select test equipment according to accuracy and range of devices.
Range may include but is not limited to – test solution, test gases.
- 1.3 Identify type and cause of typical errors.
Range may include but is not limited to – gas sample, column selection.
- 1.4 Calibrate devices to an accuracy specified by the data sheet.
- 1.5 Document test results in accordance with industry requirements.

Outcome 2

Maintain and repair chromatographs.

Performance criteria

- 2.1 Locate, interpret, and apply technical information for maintaining equipment.
- 2.2 Explain and follow safe work procedures.
Range may include but is not limited to – isolation, pressure.
- 2.3 Carry out maintenance and perform repairs to ensure correct and continued operation.
Range may include but is not limited to – tools, materials, parts, techniques, specifications.
- 2.4 Produce maintenance reports in accordance with industry requirements.

Planned review date	31 December 2021
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	31 October 1995	31 December 2013
Revision	2	4 November 1997	31 December 2013
Revision	3	3 April 2001	31 December 2013
Review	4	22 June 2001	31 December 2013
Review	5	19 May 2008	31 December 2019
Review	6	21 November 2013	N/A
Rollover and Revision	7	28 June 2018	N/A

Consent and Moderation Requirements (CMR) reference

0003

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

Comments on this unit standard

Please contact The Skills Organisation reviewcomments@skills.org.nz if you wish to suggest changes to the content of this unit standard.