

Title	Maintain chromatographs		
Level	4	Credits	4

Purpose	People credited with this unit standard are able to: <ul style="list-style-type: none"> – 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.

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	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	31 December 2027
Rollover and Revision	7	28 June 2018	31 December 2027
Review	8	30 January 2025	31 December 2027

Consent and Moderation Requirements (CMR) reference	0003
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.