

<b>Title</b>	<b>Maintain analytical monitoring equipment</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>4</b>

<b>Purpose</b>	People credited with this unit standard are able to: <ul style="list-style-type: none"> <li>– calibrate analytical exhaust monitoring equipment; and</li> <li>– service analytical exhaust monitoring equipment.</li> </ul>
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<b>Classification</b>	Industrial Measurement and Control > Industrial Measurement and Control - Maintenance
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 This unit standard has been developed for learning and assessment in the workplace.
- 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; and enterprise requirements which cover the documented workplace policies, procedures, specifications, business requirements; and quality management requirements relevant to the workplace in which the assessment is carried out.  
*PPE* – Personal Protection Equipment that is appropriate to any job being undertaken and can include overalls, safety glasses, gloves, face masks, safety boots, ear muffs etc.  
*Service* – planned activity during normal operation, that involves, inspection, cleaning, testing, adjusting or making minor repairs to a piece of equipment to ensure that it works properly.
- 4 Recommended skills and knowledge: Unit 28081, *Demonstrate knowledge of gas analytical measurement and flame, gas, smoke, and heat detection*.

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## Outcomes and performance criteria

### Outcome 1

Calibrate analytical exhaust monitoring equipment.

#### Performance criteria

- 1.1 Explain and follow safe work procedures.
- Range may include but is not limited to – isolation, low oxygen, high temperature, toxic gas conditions, PPE.
- 1.2 Select test equipment according to required accuracy and range of devices.
- Range sample gases, collecting samples, portable analyser; evidence of one required.
- 1.3 Identify and explain types and causes of typical errors.
- Range sensor damage, gas sample; evidence of one required.
- 1.4 Calibrate equipment by making appropriate adjustments, to a specified accuracy.
- Range zero, span.
- 1.5 Produce calibration reports in accordance with industry requirements.

### Outcome 2

Service analytical exhaust monitoring equipment.

#### Performance criteria

- 2.1 Locate, interpret, and apply technical information for servicing equipment.
- 2.2 Explain and follow safe work procedures.
- Range may include but is not limited to – isolation, low oxygen, high temperature, toxic gas conditions, PPE.
- 2.3 Service and verify performance of an analytical exhaust monitoring system to ensure continued operation.
- Range may include but is not limited to – tools, materials, parts, techniques, specifications.
- 2.4 Produce service 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	30 October 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

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