

<b>Title</b>	<b>Maintain a dissolved oxygen measuring system</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: – calibrate a dissolved oxygen measuring system; and – maintain and service a dissolved oxygen measuring system.
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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 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.  
*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 28080, *Demonstrate knowledge of liquid analytical measurement systems*.

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## Outcomes and performance criteria

### Outcome 1

Calibrate a dissolved oxygen measuring system.

#### Performance criteria

- 1.1 Explain and follow safe work procedures.  
Range may include but is not limited to – isolation, pressure, PPE.
- 1.2 Select test equipment according to required accuracy and range of devices.  
Range may include but is not limited to – test solution, probe simulator.
- 1.3 Identify and explain types and causes of typical errors.  
Range may include but is not limited to – probe failure, gas sample.
- 1.4 Calibrate equipment by making appropriate adjustments, to a specified accuracy.
- 1.5 Produce calibration reports, in accordance with industry requirements.

### Outcome 2

Maintain and service a dissolved oxygen measuring system.

#### 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, pressure, PPE.
- 2.3 Service and verify performance on a dissolved oxygen 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.

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<b>Planned review date</b>	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	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	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](mailto:reviewcomments@skills.org.nz) if you wish to suggest changes to the content of this unit standard.