

Title	Demonstrate knowledge of instruments used in the energy and chemical industry		
Level	3	Credits	5

Purpose	<p>This unit standard is intended for people working as boiler operators and energy and chemical process operators in an energy and chemical plant.</p> <p>People credited with this unit standard are able to demonstrate knowledge of instruments used in the energy and chemical industry.</p>
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Classification	Energy and Chemical Plant > Monitoring of Energy and Chemical Plant
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Available grade	Achieved
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Guidance Information

None.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of instruments used in the energy and chemical industry.

Performance criteria

- 1.1 Describe pressure indicating instruments in terms of their design and operating concepts.
- Range evidence of four types of instrument is required.
- 1.2 Describe the relationship between unit measures used for indicating pressure in terms of conversion between these unit measures.
- Range units include but are not limited to – pounds per square inch, bar absolute, bar gauge, kilopascal, millimetres of water, atmospheres.
- 1.3 Describe temperature indicating instruments in terms of their design and operating concepts.
- Range evidence of four types of instrument is required.

- 1.4 Describe the relationship between Fahrenheit and Celsius in terms of conversion between these unit measures.
- 1.5 Describe level measurement instruments in terms of their design and operating concepts.
- Range evidence of four types of instrument is required.
- 1.6 Describe flow measurement instruments in terms of their design and operating concepts.
- Range evidence of four types of instrument is required.

Replacement information	This unit standard replaced unit standard 3054.
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Planned review date	31 December 2024
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	24 October 2014	31 December 2022
Review	2	27 February 2020	N/A

Consent and Moderation Requirements (CMR) reference	0079
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

Please contact the Primary Industry Training Organisation standards@primaryito.ac.nz if you wish to suggest changes to the content of this unit standard.