

<b>Title</b>	<b>Shut down for maintenance, and start up, a hydraulic system</b>		
<b>Level</b>	<b>2</b>	<b>Credits</b>	<b>4</b>

<b>Purpose</b>	People credited with this unit standard are able to shut down a hydraulic system for maintenance, and start up a hydraulic system.
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<b>Classification</b>	Mechanical Engineering > Fluid Power - Hydraulics
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<b>Available grade</b>	Achieved
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## Guidance Information

### 1 Legislation and references

Legislation, regulations and/or industry standards relevant to this unit standard include but are not limited to the:  
Health and Safety at Work Act 2015.

Any new, amended or replacement Acts, regulations, standards, codes of practice, guidelines, or authority requirements or conditions affecting this unit standard will take precedence for assessment purposes, pending review of this unit standard.

### 2 Definitions

*Accepted industry practice* is defined as approved codes of practice and standardised procedures accepted by the wider mechanical engineering industry sectors as examples of best practice.

*PPE* refers to personal protective equipment and may include but is not limited to protective clothing, gloves, safety glasses, headwear, footwear, hearing protection, and safety devices.

*Workplace procedures* refers to procedures used by the organisation carrying out the work and applicable to the tasks being carried out. Examples are – standard operating procedures, safety procedures, equipment operating procedures, codes of practice, quality management practices and standards, procedures to comply with legislative and local body requirements.

### 3 Recommended skills and knowledge

It is recommended that people hold credits for Unit 20611, *Demonstrate knowledge of hydraulic systems* or demonstrate equivalent knowledge and skills, before being assessed against this unit standard.

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## Outcomes and performance criteria

### Outcome 1

Shut down a hydraulic system for maintenance.

**Performance criteria**

- 1.1 Shut down instructions are verified with supervisor and followed.
- 1.2 Hydraulic system is isolated in accordance with accepted industry practice.  
Range electrical, mechanical, and potential energy sources.
- 1.3 Hydraulic system is depressurised in accordance with accepted industry practice.

**Outcome 2**

Start up a hydraulic system.

**Performance criteria**

- 2.1 System completeness and start up instructions are verified with supervisor.
- 2.2 Accumulator pre-charge pressures are visually checked against accepted industry practice, and workplace procedures where applicable.
- 2.3 Fluids and levels in the system are checked against operational requirements and adjusted if necessary.
- 2.4 System is re-energised to accepted industry practice, and workplace procedures where applicable.  
Range electrical, mechanical, and potential energy.
- 2.5 System performance is checked to ensure it meets operational requirements.
- 2.6 Worksite and system is cleaned in accordance with accepted industry practice and is verified with supervisor.

<b>Replacement information</b>	This unit standard and unit standard 20598 replaced unit standard 2723.
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<b>Planned review date</b>	31 December 2027
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**Status information and last date for assessment for superseded versions**

Process	Version	Date	Last Date for Assessment
Registration	1	25 May 2004	31 December 2014
Review	2	18 March 2011	31 December 2022
Review	3	17 August 2017	N/A
Review	4	30 March 2023	N/A

**Consent and Moderation Requirements (CMR) reference**

0014

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

**Comments on this unit standard**

Please contact Hanga-Aro-Rau Manufacturing, Engineering and Logistics Workforce Development Council [qualifications@hangaarorau.nz](mailto:qualifications@hangaarorau.nz) if you wish to suggest changes to the content of this unit standard.