

<b>Title</b>	<b>Describe water blasters, low-pressure pumps, and diagnosing faults in the motor and related industries</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 describe water blasters and low-pressure water pumps; and fault diagnosis in water blasters and low-pressure pumps in the motor and related industries.
----------------	---

<b>Classification</b>	Motor Industry > Automotive Workshop Engineering
-----------------------	--

<b>Available grade</b>	Achieved
------------------------	----------

---

### Guidance Information

- 1 Evidence presented for assessment against this unit standard must be consistent with safe working practices and be in accordance with applicable service information, and company requirements and legislative requirements. This includes the knowledge and use of suitable tools and equipment.
- 2 Legislation, regulations and/or industry standards relevant to this unit standard include but are not limited to the current version of the Health and Safety at Work Act 2015; and any subsequent amendments and replacements.
- 3 Definitions  
*Company requirements* refer to instructions to staff on policy and procedures that are available in the workplace. These requirements may include – company policies and procedures, work instructions, product quality specifications and legislative requirements.  
*Service information* may include – technical information for a vehicle, machine, or product detailing operation; installation and servicing procedures; manufacturer instructions; technical terms and descriptions; and detailed illustrations.

---

### Outcomes and performance criteria

#### Outcome 1

Describe water blasters in the motor and related industries.

#### Performance criteria

- 1.1 Types of water blasters are described.

Range hot, cold.

- 1.2 Components of water blasters are described.
- Range filters; pumps; hoses; heater; wand; nozzle; unloader valve; pump drive; electric, petrol, and diesel motors.
- 1.3 The operation of water blasters is described.
- Range output pressure, volume rates.

**Outcome 2**

Describe low-pressure pumps in the motor and related industries.

**Performance criteria**

- 2.1 Pumping fundamentals are described.
- Range priming, head height, pick up.
- 2.2 Types of low-pressure pumps are described.
- Range may include – slurry pumps, water pumps; piston, centrifugal, diaphragm, rotary; positive displacement, non-positive displacement.
- 2.3 Components of low-pressure pumps are described.
- 2.4 The operation of low-pressure pumps is described.
- Range may include – piston, centrifugal, diaphragm, rotary.

**Outcome 3**

Describe fault diagnosis in water blasters and low-pressure pumps in the motor and related industries.

**Performance criteria**

- 3.1 Methods of diagnosing faults in water blasters and low-pressure pumps are described.

<b>Planned review date</b>	31 December 2024
----------------------------	------------------

**Status information and last date for assessment for superseded versions**

Process	Version	Date	Last Date for Assessment
Registration	1	22 August 2019	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0014
--	------

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

---

**Comments on this unit standard**

Please contact MITO New Zealand Incorporated [info@mito.org.nz](mailto:info@mito.org.nz) if you wish to suggest changes to the content of this unit standard.