

Title	Recondition engine cylinder heads		
Level	4	Credits	12

Purpose	People credited with this unit standard are able to: prepare to recondition engine cylinder heads; and recondition engine cylinder heads.
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Classification	Motor Industry > Engines
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Available grade	Achieved
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Guidance Information

- 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.
- 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.
- 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.
- Assessment against this standard must include cast iron and aluminium alloy cylinder heads from both petrol and diesel multi-cylinder engines.
- It is recommended that individuals first hold credit for Unit 32322, *Demonstrate knowledge of automotive cylinder head reconditioning practices*, before being assessed against this standard.

Outcomes and performance criteria

Outcome 1

Prepare to recondition engine cylinder heads.

Performance criteria

- 1.1 Engine cylinder heads are cleaned and decarbonised.
- Range may include – chemical cleaning bath, scraping, buffing, media blasting.
- 1.2 Engine cylinder heads are hardness tested.
- 1.3 Engine cylinder heads are crack tested or pressure tested.

Outcome 2

Recondition engine cylinder heads.

Performance criteria

- 2.1 Cylinder heads are repaired.
- Range may include – cracks, corrosion, threads, straightening, coolant components, rocker components, valve components, cylinder head surfaces; evidence of four is required.
- 2.2 Cylinder heads are machined.
- Range rocker components, valve components, cylinder head.
- 2.3 Engine cylinder head is vacuum tested.

Planned review date	31 December 2025
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	25 September 1997	31 December 2023
Review	2	28 February 2001	31 December 2023
Review	3	25 January 2008	31 December 2023
Review	4	25 February 2021	N/A

Consent and Moderation Requirements (CMR) reference	0014
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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 MITO New Zealand Incorporated info@mito.org.nz if you wish to suggest changes to the content of this unit standard.