

Title	Recore a brass tank vehicle or machine radiator		
Level	3	Credits	7

Purpose	This unit standard is for people who work in the radiator repair industry. People credited with this unit standard are able to: diagnose problems in; remove an old core from; and fit a new core to, a brass tank vehicle or machine radiator.
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Classification	Motor Industry > Automotive Radiator Repair
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Available grade	Achieved
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Guidance Information

- 1 Legislation relevant to this unit standard includes but is not limited to – Health and Safety in Employment Act 1992, Resource Management Act 1991, Lead Process Regulations 1950.
- 2 Definitions
Company requirements refer to instructions to staff on policy and procedures which are documented in memo or manual format and are available in the workplace. These requirements include but are not limited to – company specifications and procedures, work instructions, manufacturer specifications, product quality specifications, and legislative requirements.
Suitable tools and equipment means industry approved tools and equipment that are recognised within the industry as being the most suited to complete the task in a professional and competent manner with due regard to safe working practices.
- 3 Recommended entry information: Unit 24453, *Inspect, test and rectify faults in a vehicle or machine radiator.*

Outcomes and performance criteria

Outcome 1

Diagnose problems in a brass tank vehicle or machine radiator.

Range one of – down flow radiator, cross flow radiator.

Performance criteria

- 1.1 Suitable tools and equipment are selected and used to diagnose core problems in accordance with company requirements.

- 1.2 Radiator core is inspected, and defects noted in accordance with company requirements.
- Range accident damage, stone damage, corrosion, wear and tear.
- 1.3 The viability of repairing or replacing the core is determined in accordance with company requirements.
- 1.4 Safe working practices are observed throughout the task in accordance with legislative requirements.
- Range personal safety, safety of others, vehicle or machine safety, workshop safety, environmental safety, tools and equipment safety.

Outcome 2

Remove an old core from a brass tank vehicle or machine radiator.

Performance criteria

- 2.1 Suitable tools and equipment are selected and used to remove the old core in accordance with company requirements.
- 2.2 Oil cooler connections (if fitted) are identified and protected in accordance with company requirements.
- 2.3 Radiator is secured in holding jig, and positions and angles of components marked, in accordance with company requirements.
- 2.4 Radiator is dismantled, and parts cleaned and stored securely, in accordance with company requirements.
- Range tanks, side bands, overflow pipe, inlet and outlet pipes, oil cooler, filler neck, sensors, labelled parts.
- 2.5 Safe working practices are observed throughout the task in accordance with legislative requirements.
- Range personal safety, safety of others, vehicle or machine safety, workshop safety, environmental safety, tools and equipment safety.

Outcome 3

Fit a new core to a brass tank vehicle or machine radiator.

Performance criteria

- 3.1 Suitable tools and equipment are selected and used to fit a new core in accordance with company requirements.

3.2 Radiator components are identified, cleaned, and checked for defects. Defective parts are rectified in accordance with company requirements.

Range corrosion, accident, wear and tear; repaired, replaced.

3.3 Radiator core, as specified by the manufacturer, is identified, prepared, and checked in accordance with company requirements.

Range clean, no leaks, no blocked tubes.

3.4 Radiator is reassembled and tested to ensure operation in accordance with company requirements.

Range no leaks, blockages, or contamination.

3.5 Radiator is prepared and painted in accordance with company requirements.

3.6 Tools, materials and equipment are cleaned and put away in their places, and the work area is clean in accordance with company requirements.

3.7 Safe working practices are observed throughout the task in accordance with legislative requirements.

Range personal safety, safety of others, vehicle or machine safety, workshop safety, environmental safety, tools and equipment safety.

This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	29 May 1996	31 December 2020
Revision	2	14 November 2000	31 December 2020
Revision	3	16 October 2003	31 December 2020
Review	4	25 January 2008	31 December 2020
Review	5	26 April 2018	31 December 2020

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>.