

Title	Monitor and control complex system fault repairs on a vehicle or machine		
Level	5	Credits	20

Purpose	People credited with this unit standard are able to monitor and control complex system fault repairs on a vehicle or machine.
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Classification	Motor Industry > Automotive Workshop Engineering
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Available grade	Achieved
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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 and legislative requirements. This includes the knowledge and use of suitable tools and equipment.
- 2 Legislation, regulations and 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.

- 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.
High voltage refers to voltages above 60 V.
Monitor and control refers to communicating with others to implement the appropriate repair solution and facilitating the activities to progress through the process to repair the faulty vehicle system.
Service information refers to technical information for a vehicle, machine, or product detailing operation; installation and servicing procedures; manufacturer instructions; technical terms and descriptions; and detailed illustrations.

4 Range

Auxiliary systems may include – a processing head, pumping unit or grappling device; and a combination of electronic, hydraulic, hydrostatic or mechanical systems interacting together.

Vehicle or machine systems may include – engine management, body control, braking, steering and suspension, driveline, mechanical engine, auxiliary, pneumatic, hydraulic, electrical and electronics, advanced driver assist, accessory or high voltage systems.

Evidence is required for monitoring and controlling at least one complex fault repair in four different systems, each on a different vehicle or machine.

Outcomes and performance criteria

Outcome 1

Monitor and control complex system fault repairs on a vehicle or machine.

Performance criteria

1.1 Repair solution is determined from diagnostic test results.

1.2 Monitor and control the repair and make any further recommendations as required.

Range may include – outsourcing, priority sequence of repair solution.

1.3 System is tested to ensure the fault is repaired.

1.4 Repair report is compiled.

Range may include – diagnosis, repair method, labour time, estimate or quotation.

Replacement information	This unit standard and unit 33132 replaced unit standard 10102.
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Planned review date	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	26 January 2023	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 Hanga-Aro-Rau Manufacturing, Engineering, and Logistics Workforce Development Council qualifications@hangaarorau.nz if you wish to suggest changes to the content of this unit standard.