

Title	Demonstrate knowledge of tractor and agricultural machine safety frame and cab requirements, and inspection and repairs		
Level	4	Credits	2

Purpose	People credited with this unit standard are able to demonstrate knowledge of: tractor and agricultural machine safety frame and cab requirements; and inspection and repair procedures for safety frame and body components.
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Classification	Motor Industry > Tractor and Machine Systems
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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 requirements and legislative requirements. This includes the knowledge and use of suitable tools and equipment.
- 2 Performance of the outcomes of this unit standard must comply with the following:
Health and Safety at Work Act 2015;
Land Transport Rule: Heavy Vehicles 2004;
Land Transport Rule: Vehicle Repair 1998;
Approved code of practice: Roll-over protective structures on tractors in agricultural operations, ISBN 0-477-03630-9, available <https://worksafe.govt.nz/dmsdocument/707-acop-roll-over-protective-structures-on-tractors-in-agricultural-operations>.
- 3 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.
- 4 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 refers to information such as technical information for a vehicle, machine, or product detailing operation; installation and servicing procedures; manufacturer instructions; technical terms and descriptions; and detailed illustrations.
Suitable tools and equipment refer to 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.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of tractor and agricultural machine safety frame and cab requirements.

Performance criteria

- 1.1 Health and safety issues relating to safety frame and body components are described.
- Range roll-over protection, operator visibility, wheel and drive component guarding, protection against noise, chemical spraying.
- 1.2 Safety frame and cab testing requirements are identified.
- 1.3 Cab exemptions from the regulations are identified.
- 1.4 Glass requirements for safety cabs are described.
- 1.5 The requirements of operator cabin ergonomics and anthropometrics are identified.
- Range operator visibility, operator seating, cabin padding, noise insulation, position of controls and their operating forces, heating, ventilating.

Outcome 2

Demonstrate knowledge of inspection and repair procedures for safety frame and body components.

Performance criteria

- 2.1 Legal and professional obligations to the machine owner when fitting, inspecting, and refitting a safety frame and/or cab, are identified.
- 2.2 Procedures for inspecting and reporting on the condition of the safety frame and body component condition are described.
- Range assessing damage and condition of guards and guarding, safety frame mounts, mounting bolts, erosion and corrosion of the frame, welds, impact damage; recommending repairs required, recommending additional guarding of unprotected areas.
- 2.3 Repairs and fitting of guards and guarding are described.
- Range guarding of revolving machinery, foot plates, mud guarding, engine component protection, radiator screening, ventilation considerations, lighting protection, protection against impact damage.

Replacement information	This unit standard and unit standard 23938 replaced unit standard 5439.
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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	21 September 2007	31 December 2022
Review	2	29 July 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.