

<b>Title</b>	<b>Demonstrate knowledge of servicing requirements for boat trailer systems and controls</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>2</b>

<b>Purpose</b>	<p>This theory-based unit standard is intended for people in the trailer boat repair industry.</p> <p>People credited with this unit standard are able to demonstrate knowledge of servicing requirements for boat trailer systems and controls.</p>
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<b>Classification</b>	Motor Industry > Automotive Trailers
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<b>Available grade</b>	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: Light-vehicle Brakes 2002;  
Land Transport Rule: Vehicle Repair 1998;  
Land Transport Rule: Vehicle Standards Compliance 2002;  
Vehicle Inspection Requirements Manual (VIRM) In-service Certification;  
New Zealand Standard NZS 5232:1993 *Specification for ball-and-socket type trailer couplings*.
- 3 The VIRM is available online at <http://vehicleinspection.nzta.govt.nz/>.
- 4 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.
- 5 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.  
*Light trailer* refers to classes TA and TB as specified in the Vehicle equipment standards classifications at <https://www.nzta.govt.nz/vehicles/vehicle-types/vehicle-classes-and-standards/vehicle-classes/>.

*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.

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## Outcomes and performance criteria

### Outcome 1

Demonstrate knowledge of servicing requirements for boat trailer systems and controls.

### Performance criteria

- 1.1 Boat trailer design requirements are identified.
- Range tilt and fixed boom, loading requirements, balance, towability, corrosion protection, security of fixtures, restraints, warrant of fitness requirements.
- 1.2 Suspension systems and tyre requirements are identified.
- Range single and multi-axle trailers.
- 1.3 Wheel bearing and hub servicing requirements are identified.
- Range checking bearing and hub condition, renewing bearings and seals, lubrication, adjustment procedures.
- 1.4 Wiring requirements and electrical fittings are identified.
- Range protection of wiring, routing, types of lamps.
- 1.5 The operation and servicing requirements of light trailer brakes are described.
- Range hydraulic and mechanical.
- 1.6 Types of couplings and ball sizes are identified.
- Range NZS 5232, VIRM.
- 1.7 The hazards of incorrect wiring of trailer plugs to the towing vehicle's electrical system are described.
- Range damage to vehicle's electrical system, incorrect operation on the road.
- 1.8 Water immersion protection of trailer parts is described.
- Range corrosion protection, brakes, wheel bearings and seals.

1.9 Servicing requirements for winches, rollers, and guides are identified.

Range checking damage, security, lubrication, guide and roller alignment, operation.

<b>Replacement information</b>	This unit standard and unit standard 23934 replaced unit standard 15414.
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<b>Planned review date</b>	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	27 May 2021	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	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](mailto:info@mito.org.nz) if you wish to suggest changes to the content of this unit standard.