

Title	Adjust or calibrate controller systems on materials handling equipment		
Level	3	Credits	4

Purpose	People credited with this unit standard are able to: adjust or calibrate a traction, steering or hydraulic controller on materials handling equipment; and adjust or calibrate an electronic hydraulic controller on materials handling equipment.
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Classification	Motor Industry > Automotive Electrical and Electronics
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Available grade	Achieved
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Guidance Information

- 1 It is recommended that people hold credit for Unit 24145, *Remove, replace and calibrate a traction, steering or hydraulic controller on a forklift* before being assessed against this unit standard.
- 2 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.
- 3 Performance of the outcomes of this unit standard must comply with the following:
Health and Safety at Work Act 2015;
New Zealand Standard NZS/ANSI/ITSDF B56.1:2005 *Safety standard for low lift and high lift trucks*.
- 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.
Materials handling equipment refers to equipment used to move materials from one location to another, for example between workplaces or between a loading dock and a storage area. These may include but are not limited to forklifts, hand trucks, and pallet loaders.
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.

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;

- 6 Range
This unit standard includes any one of the following machines – contactor machine, silicon controlled rectifier (SCR) controlled machine, transistor controlled machine.
- 7 For this unit standard, it is essential that the practical assessment evidence is obtained in the workplace under normal workplace conditions.

Outcomes and performance criteria

Outcome 1

Adjust or calibrate a traction, steering or hydraulic controller on materials handling equipment.

Performance criteria

- 1.1 Traction, steering or hydraulic controller is adjusted and/or calibrated.
Range current limit, plugging, acceleration, creep speed, field weakening.
- 1.2 Traction, steering or hydraulic controller is tested to ensure it operates.

Outcome 2

Adjust or calibrate an electronic hydraulic controller on materials handling equipment.

Performance criteria

- 2.1 Electronic hydraulic controller is adjusted and/or calibrated.
- 2.2 Electronic hydraulic controller is tested to ensure it operates.

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 January 2008	31 December 2022
Review	2	25 March 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.