

40244 Maintain final controlling elements in an industrial context

Kaupae Level	4
Whiwhinga Credit	4
Whāinga Purpose	<p>This skill standard recognises the skills required to maintain final controlling elements in an industrial context.</p> <p>This skill standard may contribute to the New Zealand Certificate in Industrial Measurement and Control (Practice) (Level 4) [Ref: 2251].</p>

Hua o te ako me Paearu aromatawai | Learning outcomes and assessment criteria

Hua o te ako Learning outcomes	Paearu aromatawai Assessment criteria
1. Maintain final controlling elements in an industrial context.	a. Technical information is applied to service or repair element.
	b. Cause, type, and symptoms of typical errors are identified and explained.
	c. Element is serviced or repaired to ensure correct operation in accordance with industry requirements.
	d. Performance of element is verified using appropriate reference measurement standards.
	e. Results of acceptance testing are documented in accordance with industry requirements.

Pārongo aromatawai me te taumata paearu | Assessment information and grade criteria

Assessment specifications:

Final Controlling Elements are used for closed-loop control in an industrial context. Assessment must include **two** different final controlling elements such as:

- Control valves.
- Variable speed driven motors.
- Peristaltic dosing pumps.
- DC motors used for process control.
- Solid state power control.

To achieve this standard the candidate must be capable of consistently:

- performing the skill to the required industry standard
- repeating the skill on demand
- performing the skill without supervision
- applying the skill to other work.

Industry requirements refer to all asset owner requirements; manufacturers' specifications; enterprise requirements which cover the documented workplace policies, procedures, specifications, and business requirements; and quality management requirements relevant to the workplace.

Ngā momo whiwhinga | Grades available

Achieved.

Ihirangi waitohu | Indicative content

- Safe work procedures and practices.
- Types of final controlling elements.
- Cause, type, and symptoms of typical errors in final controlling elements.
- Procedures to service and repair final controlling elements.
- Verification procedures.

Rauemi | Resources

- Programme guidance available from qualifications@waihangaararau.nz.
- Manufacturers' instructions and device specification sheets relevant to the equipment used for the task.
- Electricity Act 1992.
- Electricity (Safety) Regulations 2010.
- All vocabulary will align to the IEC 60050 International Electrotechnical Vocabulary (IEV) available at [IEC 60050 - International Electrotechnical Vocabulary](#).

Pārongo Whakaū Kouna | Quality assurance information

Ngā rōpū whakatau-paerewa Standard Setting Body	Waihanga Ara Rau Construction and Infrastructure Workforce Development Council
Whakaritenga Rārangi Paetae Aromatawai DASS classification	Engineering and Technology > Industrial Measurement and Control > Industrial Measurement and Control - Maintenance
Ko te tohutoro ki ngā Whakaritenga i te Whakamanatanga me te Whakaōritenga CMR	0003

Hātepe Process	Putanga Version	Rā whakaputa Review Date	Rā whakamutunga mō te aromatawai Last date for assessment
Rēhitatanga Registration	1	30 January 2025	N/A
Kōrero whakakapinga Replacement information	N/A		
Rā arotake Planned review date	31 December 2029		

Please contact Waihanga Ara Rau Construction and Infrastructure Workforce Development Council qualifications@waihangaararau.nz to suggest changes to the content of this skill standard.