

Title	Load work for metal surface finishing processing operations		
Level	3	Credits	5

Purpose	<p>People credited with this unit standard are able to prepare equipment and carry out wiring, jiggging, or racking of items/work for metal surface finishing processing operations.</p> <p>This unit standard applies to a wide variety of processes, typical of which are degreasing, descaling, blasting, wet coating, powder coating, electroplating, electrophoretic coating, electrolytic coating, electrostatic coating, and hot dip metallising.</p> <p>This unit standard does not apply to continuous coil coating.</p>
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Classification	Mechanical Engineering > Metal Surface Finishing
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Available grade	Achieved
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Guidance Information

- 1 Unit 21911, *Demonstrate knowledge of safety on engineering worksites*; and Unit 21912, *Apply safe working practices on an engineering worksite*, are recommended entry into this unit standard.
- 2 Legislation
Health and Safety at Work Act 2015 and supporting regulations.
- 3 Definitions
Accepted industry practice refers to approved codes of practice and standardised procedures accepted by the wider mechanical engineering industry sectors as examples of best practice.
Workplace procedures refer to procedures used by the organisation carrying out the work and applicable to the tasks being carried out. They may include but are not limited to – standard operating procedures, safety procedures, equipment operating procedures, codes of practice, quality management practices and standards, procedures to comply with legislative and local body requirements.
- 4 Assessment information
All activities must comply with applicable workplace procedures and must be consistent with accepted industry practice.

Outcomes and performance criteria

Outcome 1

Prepare equipment for metal surface finishing processing operations.

Performance criteria

- 1.1 Processing instructions are checked to establish requirements for the items/work.
- 1.2 Type and size of wire is selected appropriate to items/work to be processed.
- 1.3 Venting and drainage holes in items/work are checked for suitability.

Outcome 2

Carry out wiring, jigging, or racking of items/work for metal surface finishing processing operations.

Performance criteria

- 2.1 Items/work are secured according to processing instructions.
- 2.2 Items/work are positioned to eliminate surface defects.

Range defects may include but are not limited to – wire marking, excessive coating build up, gas pockets, uncoated areas.

Planned review date	31 December 2021
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	25 October 1994	31 December 2016
Revision	2	14 April 1997	31 December 2016
Revision	3	5 January 1999	31 December 2016
Revision	4	23 May 2001	31 December 2016
Revision	5	15 May 2002	31 December 2022
Review	6	15 September 2016	N/A
Revision	7	13 December 2018	N/A

Consent and Moderation Requirements (CMR) reference	0013
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Comments on this unit standard

Please contact Competenz qualifications@competenz.org.nz if you wish to suggest changes to the content of this unit standard.