Title	Finish metal castings		
Level	2	Credits	15

Purpose People credited with this unit standard are able to: prepare castings for finishing; clean and examine raw castings; and finish castings and complete documentation.	
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Available grade	Achieved
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Guidance Information

Unit 2395, Demonstrate and apply knowledge of the selection, use, and care of engineering hand tools; and Unit 2396, Demonstrate and apply knowledge of the selection, use, and care of portable hand held engineering power tools are recommended for entry into this unit standard.

2 References and legislation

Health and Safety at Work Act 2015.

Hazardous Substances and New Organisms Act 1996.

Resource Management Act 1991.

WorkSafe New Zealand. Health and Safety Guidelines on the Management of Hazards in the Metal Casting Industry. Available at:

http://www.business.govt.nz/worksafe/information-guidance/all-guidance-items/metal-casting-industry-health-and-safety-guidelines-for-the-management-of-hazards-in/metal-casting-hs-guidelines.pdf.

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 Range

Cleaning may include – trimming and fettling using equipment such as hand and power tools, mechanical cutting, flame and air arc cutting equipment, and abrasive cleaning equipment.

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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 castings for finishing.

Performance criteria

- 1.1 Castings are stripped from moulding medium.
- 1.2 Castings are transported to cleaning area.

Range manual and mechanical transportation aids.

1.3 Used moulding medium is recycled and/or disposed of.

Outcome 2

Clean and examine raw castings.

Performance criteria

- 2.1 Cleaning process for the castings is selected.
 - Range manual or automatic processes.
- 2.2 Castings are cleaned.
- 2.3 Castings are examined, and any castings not conforming to specification are segregated.

Outcome 3

Finish castings and complete documentation.

Performance criteria

- 3.1 Material to be removed from castings is identified in accordance with component specification.
- 3.2 Excess material is removed using equipment relevant to task.
- 3.3 Castings are checked for conformance with component specification, and any non-conforming castings are identified.
- 3.4 Castings not complying with specification are processed.
- 3.5 Documentation is completed.

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Planned review date	31 December 2021

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	25 October 1994	31 December 2012
Revision	2	14 April 1997	31 December 2012
Revision	3	5 January 1999	31 December 2012
Review	4	19 October 1999	31 December 2012
Review	5	19 May 2006	31 December 2016
Rollover and Revision	6	17 November 2011	31 December 2022
Review	7	15 September 2016	N/A
Revision	8	23 November 2017	N/A

ion Requirements (CMR) reference 0013	Consent and Moderation Requirements (CMR) reference 0013
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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 Competenz <u>qualifications@competenz.org.nz</u> if you wish to suggest changes to the content of this unit standard.