

<b>Title</b>	<b>Produce moulds and cores using machines for metal casting processes</b>		
<b>Level</b>	<b>2</b>	<b>Credits</b>	<b>10</b>

<b>Purpose</b>	People credited with this unit standard are able to prepare machine for moulding or core making processes, and make moulds and cores.
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<b>Classification</b>	Mechanical Engineering > Metal Forming
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 References and legislations  
Health and Safety at Work Act 2015 and supporting regulations.  
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>.
- 2 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.
- 3 Assessment Information  
All activities must comply with applicable workplace procedures and must be consistent with accepted industry practice.

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### Outcomes and performance criteria

#### Outcome 1

Prepare machine for moulding or core making processes.

**Performance criteria**

- 1.1 Product tooling is selected for machine.
- 1.2 Tooling is set up and placed in machine.

**Outcome 2**

Make moulds and cores.

**Performance criteria**

- 2.1 Machine is operated to make moulds and/or cores.
- Range may include but is not limited to – manual, automatic, semi-automatic machines.
- 2.2 Moulds and cores produced are inspected for conformance to specification.
- 2.3 Moulds and cores are prepared and closed
- 2.4 Foundry tooling is cleaned, examined, and any damage reported.
- 2.5 Machine and work area are cleaned.

<b>Planned review date</b>	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 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

<b>Consent and Moderation Requirements (CMR) reference</b>	0013
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

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**Comments on this unit standard**

Please contact Competenz [qualifications@competenz.org.nz](mailto:qualifications@competenz.org.nz) if you wish to suggest changes to the content of this unit standard.