

Title	Service moulds for rotational moulding		
Level	3	Credits	5

Purpose	People credited with this unit standard are able to: demonstrate knowledge of the construction of rotational moulds; perform mould servicing; and demonstrate knowledge of and apply mould release agents.
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Classification	Plastics Processing Technology > Rotational Moulding
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Available grade	Achieved
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Guidance Information

- 1 **Legislation**
Legislation relevant to this unit standard includes but is not limited to the Health and Safety at Work Act 2015.
- 2 **Definition**
Workplace procedures – procedures used by the organisation carrying out the work and applicable to the tasks being carried out. Examples are – standard operating procedures, site 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 performance criteria must be performed in accordance with workplace procedures.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of the construction of rotational moulds.

Performance criteria

- 1.1 Standard mould components are identified using a workplace mould and their purpose is described.

Range	mould components – cavity, part line, venting system, clamping system, frame.
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1.2 Specialised mould features and their purpose are described.

Range mould features – insulation, heat deflectors, heat pins, filling ports, transvectors, heating fins, insert holders, drop box, core pins, lifting attachments.

1.3 The materials and manufacturing processes used for rotational mould construction are described.

Range materials – aluminium, nickel, mild steel, stainless steel; manufacturing processes – casting, pre-fabricating, electroforming, CNC machining.

1.4 The requirement for and method of accommodating venting and product shrinkage within rotational moulds is explained.

Outcome 2

Perform mould servicing.

Range servicing of two moulds with different configurations is required.

Performance criteria

2.1 All moulding and mould contact surfaces are inspected for damage and wear and results are reported.

2.2 Mould storage procedures are performed.

Range examples of storage procedures are – external inspection, cleaning, surface protection coating.

Outcome 3

Demonstrate knowledge of and apply mould release agents.

Performance criteria

3.1 The function and purpose of mould release agents is described.

Range evidence of two different levels of slip is required.

3.2 Mould is prepared for the application of mould release agent and is clean and free from contamination, in accordance with supplier's instructions.

3.3 Mould release agent is selected and applied in accordance with supplier's instructions.

Range application may include but is not limited to – maintaining cleanliness, base coat life optimisation, specialised release agents applied as required.

Planned review date	31 December 2022
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	20 January 1999	31 December 2018
Revision	2	15 November 2002	31 December 2018
Revision	3	17 March 2004	31 December 2018
Rollover and Revision	4	25 September 2006	31 December 2018
Review	5	11 December 2009	31 December 2021
Review	6	15 September 2016	31 December 2022
Review	7	27 September 2018	N/A

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