

Title	Trial a complex rotationally moulded product		
Level	4	Credits	5

Purpose	People credited with this unit standard are able to: prepare to trial a complex product; fit a mould for a complex product and set the rotational moulding machine; and trial a complex rotationally moulded product.
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Classification	Plastics Processing Technology > Rotational Moulding
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Available grade	Achieved
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Entry information	
Recommended skills and knowledge	Unit 16118, <i>Control and optimise the rotational moulding production process for a standard product.</i>

Explanatory notes

- 1 Legislation relevant to this unit standard includes but is not limited to the Health and Safety at Work Act 2015.
- 2 Definitions
Complex product – products such as double wall products, multiple shot products, products with moulded graphics, products with inserts, complex shaped products.
Standard product – a conventional single skin product, except those classified as complex products below.
Trial – the testing and evaluation of either a new mould, or a mould for which there is neither prior knowledge nor production set up information available.
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 All evidence requirements must be performed in accordance with workplace procedures.

Outcomes and evidence requirements

Outcome 1

Prepare to trial a complex product.

Evidence requirements

1.1 Information available at the workplace relevant to the trial is gathered and read, and understanding of the information is demonstrated.

Range information includes – trial objectives, product specification, production specification, material specification, mould construction.

1.2 Machine suitability for the trial is verified and described.

Range machine suitability includes – machine capability, machine services, ancillary equipment.

1.3 Mould condition is confirmed.

Range mould condition examples are – moulding surface finish, cleanliness, lifting and handling facilities, machine mounting facilities, shot loading facilities, insert mounting points.

1.4 Raw material readiness is confirmed.

Range raw material readiness examples are – material grinding, material mixing.

Outcome 2

Fit a mould for a complex product and set the rotational moulding machine.

Evidence requirements

2.1 Mould is fitted with consideration of any special features.

Range examples of special features are – balancing, raw material loading requirements, demoulding requirements.

2.2 Initial machine conditions are set according to product configuration, material type, and mould construction.

2.3 Machine and mould are dry cycled.

Outcome 3

Trial a complex rotationally moulded product.

Evidence requirements

3.1 Trial procedures are carried out in a systematic manner to meet trial objectives.

3.2 Process limitations are determined to meet product and production specifications.

Range examples of process limitations are – mould condition and operation, jiggging, production equipment capability, material grade selection, ambient conditions, labour requirements.

3.3 Trial results are recorded.

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	20 January 1999	31 December 2019
Revision	2	15 November 2002	31 December 2019
Revision	3	17 March 2004	31 December 2019
Rollover and Revision	4	25 September 2006	31 December 2019
Review	5	11 December 2009	31 December 2019
Review	6	15 September 2016	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>.

Please note

Providers must be granted consent to assess against standards (accredited) by NZQA, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be granted consent to assess against standards by NZQA before they can register credits from assessment against unit standards.

Providers and Industry Training Organisations, which have been granted consent and which are assessing against unit standards must engage with the moderation system that applies to those standards.

Requirements for consent to assess and an outline of the moderation system that applies to this standard are outlined in the Consent and Moderation Requirements (CMRs). The

CMR also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

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.