

Title	Set up advanced moulds for injection moulding		
Level	3	Credits	7

Purpose	People credited with this unit standard are able to: remove, fit, and set advanced injection moulds; and select, set up, and operate ancillary equipment.
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Classification	Plastics Processing Technology > Injection Moulding
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Available grade	Achieved
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Entry information	
Recommended skills and knowledge	Unit 29515, <i>Carry out routine service of injection moulding equipment.</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
Advanced mould – a two or three plate mould with one or more product forming components which:
 - move in a direction other than the mould open axis, and/or
 - are driven by the mould rather than external actuation, and/or
 - incorporates in-mould labelling technology.
 Excludes moulds which retain molten material within the mould between cycles. Examples of typical features are: sliding blocks or cores actuated by skew pins or cams; baffled, spiral, tube, and heat pipe cooling systems; rising cores; internally actuated unscrewing systems.
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

Remove, fit, and set advanced injection moulds.

Range evidence is required for two advanced injection moulds with different dimensions, configurations, and set-up criteria.

Evidence requirements

- 1.1 The injection moulding machine is prepared for a mould change.
- 1.2 Moulds are prepared for removal and fitting.
- 1.3 Mould changes are carried out.
- 1.4 Nozzle is removed, cleaned, and refitted.
- 1.5 Machine is set to job specification.

Outcome 2

Select, set up, and operate ancillary equipment.

Range examples of ancillary equipment are – screw cutters, conveyers, mould temperature controller, in mould labelling change parts, hot runner controller, colour dosing or material mixer, hopper loaders, hopper dryers, take out devices, granulators;
evidence is required for three types.

Evidence requirements

- 2.1 Ancillary equipment is selected.
- 2.2 Ancillary equipment is set up.
- 2.3 Ancillary equipment is operated.

Replacement information	This unit standard and unit standard 27925 replaced unit standard 257.
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	21 March 2013	31 December 2019
Review	2	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 (CMR). 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.