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| Title | Prepare and set a plastics processing mould or die for new product trial | | |
| Level | 3 | Credits | 5 |

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| Purpose | People credited with this unit standard are able to: prepare to trial a plastics processing mould or die; and set a plastics processing mould or die and machine. |
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| Classification | Plastics Processing Technology > Plastics Processing - General |
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| Available grade | Achieved |
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Guidance information

- 1 Unit 29514, *Operate pre-set plastics processing machinery* is recommended for entry into this unit standard.
- 2 Legislation relevant to this unit standard includes but is not limited to the Health and Safety at Work Act 2015.
- 3 Definitions
Trial – the testing and evaluation of either a new mould or die, or a mould or die 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.
- 4
 - a All performance criteria must be carried out in accordance with workplace procedures.
 - b Candidates must provide evidence of working with either moulds or dies only.

Outcomes and performance criteria

Outcome 1

Prepare a plastics processing mould or die for new product trial.

Range evidence of preparation for two different products is required.

Performance criteria

- 1.1 Mould or die design is confirmed as suitable for polymer application.
 Range suitability checks may include but are not limited to – shrinkage, polymer type, wall thickness, consistency of part, gates and runner configuration.
- 1.2 Information relevant to the trial and available at the workplace is gathered and interpreted.
 Range trial objectives, product specification, material specification; other information may include but is not limited to – production specification, mould or die construction and operation.
- 1.3 Machine suitability is confirmed in accordance with part production requirements.
 Range includes but is not limited to – ancillary equipment, machine capability.
- 1.4 Mould or die state is confirmed.
 Range mould or die state confirmation may include but is not limited to – inspected; cleaned; handling and lifting facilities available; connections for water or air, fitment method, physical bolting (if applicable), electrical sensor; evidence is required for at least three different states.
- 1.5 Raw material readiness is confirmed.

Outcome 2

Set a plastics processing mould or die and machine for a new product trial.

Performance criteria

- 2.1 Mould or die is set with consideration to its features.
 Range features may include but are not limited to – sliding blocks or cores, actuation systems, ancillary equipment, cooling circuits.
- 2.2 Initial machine conditions are set according to product configuration, material type, and mould or die construction.
- 2.3 Machine and mould or die are safely operated.

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| 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 | 15 September 2016 | N/A |
| Revision | 2 | 31 May 2018 | N/A |

Consent and Moderation Requirements (CMR) reference

0013

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.