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| Title | Trial an extrusion product or process on a specified extrusion line | | |
| Level | 4 | Credits | 12 |

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| Purpose | People credited with this unit standard are able to trial an extrusion product or process on a specified extrusion line. |
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| Classification | Plastics Processing Technology > Extrusion |
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| Available grade | Achieved |
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| Entry information | |
| Recommended skills and knowledge | Unit 27631, <i>Optimise the extrusion process and operate an extrusion process for complex products</i> ; Unit 23131, <i>Compare melt flow and dimensional stability of plastics materials</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
Trial – the testing and evaluation of either a new extrusion product or process, or an extrusion product or process 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

Trial an extrusion product or process on a specified extrusion line.

Evidence requirements

- 1.1 Pre-trial preparations are carried out.
- Range preparation examples are – verifying trial purpose, verifying quality specifications for the trial product, verifying number of samples, sourcing raw material, checking availability of dies and gauges, verifying expected production output requirements.
- 1.2 Extrusion line equipment is set up and prepared.
- Range equipment includes – extruder, diehead assembly, downstream and ancillary equipment.
- 1.3 Initial extrusion line conditions are set according to product design, material type, die, diehead assembly, and cooling equipment construction.
- 1.4 Trial procedures are carried out, and adjustments are made to optimise product quality and productivity.
- 1.5 Trial results are recorded and samples are identified.
- 1.6 Conclusions are reported and recommendations made based on trial results.

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| Replacement information | This unit standard and unit standard 27631 replaced unit standard 284. |
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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 2011 | 31 December 2019 |
| Review | 2 | 15 September 2016 | N/A |

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| 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.