

<b>Title</b>	<b>Set up tooling for thermoforming</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>10</b>

<b>Purpose</b>	People credited with this unit standard are able to remove, fit, and set moulds; and set up ancillary equipment.
----------------	--

<b>Classification</b>	Plastics Processing Technology > Thermoforming
-----------------------	--

<b>Available grade</b>	Achieved
------------------------	----------

<b>Entry information</b>	
<b>Recommended skills and knowledge</b>	Unit 269, <i>Service tooling for thermoforming</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  
*Tooling* – moulds and associated ancillary equipment. Examples of features are male or female mould plates, vacuum or mounting plates, back plate, vacuum holes, venting holes, cooling water systems, inserts, plug assists, clamping frames, back plate, cavity inserts, venting system, in-mould cutting components, stripper plate, ejector system, cooling systems (baffled holes, spirals, flood and tube systems), pressure box, plug assist assembly. Associated ancillary equipment is tooling for use in semi-automatic or fully automatic product trimming operations and includes steel rule knives, and punches and dies.  
*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 moulds.

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

### Evidence requirements

- 1.1 The thermoforming machine is prepared for a mould change.
- 1.2 Moulds are prepared for removal and fitting.
- 1.3 Tools for mould changing are selected.
- 1.4 Mould changes are carried out.
- 1.5 Machine is set to job specification.

### Outcome 2

Set up and operate ancillary equipment.

Range: examples of ancillary equipment are – punches and dies; steel rule knives; band saws; routers; computer numerically controlled (CNC) router jig; robot jig; guillotines; drills; trim fixtures;  
evidence is required for two items of ancillary equipment and knowledge of remaining items.

### Evidence requirements

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

---

<b>Planned review date</b>	31 December 2021
----------------------------	------------------

**Status information and last date for assessment for superseded versions**

Process	Version	Date	Last Date for Assessment
Registration	1	28 April 1993	31 December 2012
Revision	2	13 February 1997	31 December 2012
Review	3	23 January 1998	31 December 2012
Review	4	27 October 2005	31 December 2012
Review	5	18 August 2011	31 December 2019
Review	6	15 September 2016	N/A

**Consent and Moderation Requirements (CMR) reference**

0013

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](mailto:qualifications@competenz.org.nz) if you wish to suggest changes to the content of this unit standard.