

National Certificate in Plastics Processing Technology (Technical) (Level 1) with strands in Injection Moulding, Extrusion, Blow Moulding, Thermoforming, Blown Film Extrusion, Film Conversion, Injection Stretch-Blow Moulding, and Rotational Moulding

Level	1
Credits	46-48

This qualification is expiring. The last date to meet the requirements is 31 December 2011.

Purpose

The National Certificate in Plastics Processing Technology (Technical) (Level 1) with specialist strands is an introductory qualification to the plastics industry. It is designed as the basis for further qualifications in plastics processing or plastics engineering, and will provide the holder with limited skills and knowledge in one specialised production technique. Holders of this certificate are able to undertake basic production and engineering activities under supervision.

A substantial portion of the qualification comprises compulsory standards selected to build sound basic engineering capabilities and teamwork, self-management, and safety skills. The strands in the balance of the qualification provide candidates with specialised skills and knowledge of one particular plastics processing technique and plastics materials.

People intending a career in the plastics industry may commence training towards the qualification by gaining credit for selected standards prior to such employment. People wishing to gain credit for any standard in the subfield of Plastics Processing Technology will need to undertake training either with an accredited training provider, or in a plastics manufacturing enterprise, and then be assessed by a workplace assessor registered by the Plastics and Materials Processing Industry Training Organisation Incorporated.

Certificate holders are encouraged to undertake further training towards the National Certificate in Plastics Processing Technology (Technical) (Level 2) with strands in Injection Moulding, Extrusion, Blow Moulding, Pressure Thermoforming, Vacuum Thermoforming, Blown Film Extrusion, Film Conversion, Injection Stretch-Blow Moulding, and Rotational Moulding [Ref: 0394]. This can lead to one or more of the strands in the National Certificate in Plastics Processing Technology (Technical) (Levels 3 and 4) [Ref: 0395 and 0396], or National Certificate in Engineering and Technology (Plastics Engineering) (Level 4) [Ref: 1407].

Special Notes

People may apply for recognition of prior learning (RPL) or recognition of current competence (RCC) through an accredited organisation or in writing to PaMPITO.

Credit Range

	Core Compulsory	Injection Moulding Strand	Extrusion Strand
Level 1 credits	16	4	4
Level 2 or above credits	20	6	8
Minimum totals	36	10	12
Total for qualification with strand	-	46	48

	Blow Moulding Strand	Thermoforming Strand	Blown Film Extrusion Strand
Level 1 credits	4	4	4
Level 2 or above credits	6	6	8
Minimum totals	10	10	12
Total for qualification with strand	46	46	48

	Film Conversion Strand	Injection Stretch-Blow Moulding Strand	Rotational Moulding Strand
Level 1 credits	3	5	4
Level 2 or above credits	7	6	6
Minimum totals	10	11	10
Total for qualification with strand	46	47	46

Requirements for Award of Qualification

Award of NZQF National Qualifications

Credit gained for a standard may be used only once to meet the requirements of this qualification.

Unit standards and achievement standards that are equivalent in outcome are mutually exclusive for the purpose of award. The table of mutually exclusive standards is provided on the New Zealand Qualifications Authority (NZQA) website: <http://www.nzqa.govt.nz/qualifications-standards/standards/standards-exclusion-list/>.

Reviewed standards that continue to recognise the same overall outcome are registered as new versions and retain their identification number (ID). Any version of a standard with the same ID may be used to meet qualification requirements that list the ID and/or that specify the past or current classification of the standard.

Summary of Requirements

- Core Compulsory standards

One of the following strands is required

- Injection Moulding Strand
- Extrusion Strand
- Blow Moulding Strand
- Thermoforming Strand
 - Blown Film Extrusion Strand
 - Film Conversion Strand
 - Injection Stretch-Blow Moulding Strand
- Rotational Moulding Strand

Detailed Requirements

Compulsory

The following standards are required

Core Generic > Core Generic > Self-Management

ID	Title	Level	Credit
12349	Demonstrate time management	2	3

Core Generic > Core Generic > Work and Study Skills

ID	Title	Level	Credit
1978	Identify basic employment rights and responsibilities, and sources of information and assistance	1	2
4248	Describe requirements and expectations faced by employees within New Zealand workplaces	1	3

Engineering and Technology > Mechanical Engineering > Engineering Core Skills

ID	Title	Level	Credit
2395	Select, use and care for, engineering hand tools	2	4

Engineering and Technology > Mechanical Engineering > Engineering Drawing and Design

ID	Title	Level	Credit
2432	Construct engineering plane geometric shapes under supervision	2	3
4434	Demonstrate knowledge of basic geometric form in engineering	1	1

Engineering and Technology > Mechanical Engineering > Engineering - Materials

ID	Title	Level	Credit
20917	Demonstrate basic knowledge of engineering materials	2	2

Engineering and Technology > Mechanical Engineering > Engineering - Measurement

ID	Title	Level	Credit
4432	Demonstrate knowledge of, and convert, units of measure used in engineering	2	2
4433	Select, use, and care for simple measuring devices used in engineering	1	2

Health > Occupational Health and Safety > Occupational Health and Safety Practice

ID	Title	Level	Credit
497	Demonstrate knowledge of workplace health and safety requirements	1	3

Humanities > Communication Skills > Interpersonal Communications

ID	Title	Level	Credit
3503	Participate in a team or group to complete routine tasks	1	2

Manufacturing > Plastics Processing Technology > Plastics Materials

ID	Title	Level	Credit
23128	Demonstrate basic knowledge of plastics production processes and materials	1	3
23129	Process and use plastics materials	2	6

Injection Moulding Strand

The following standards are required

Manufacturing > Plastics Processing Technology > Injection Moulding

ID	Title	Level	Credit
252	Perform basic process operations for injection moulding	1	4
253	Operate the injection moulding machine	2	6

Extrusion Strand

The following standards are required

Manufacturing > Plastics Processing Technology > Extrusion

ID	Title	Level	Credit
281	Perform basic extrusion process operations	1	4
282	Operate the extrusion machine	2	8

Blow Moulding Strand

The following standards are required

Manufacturing > Plastics Processing Technology > Blow Moulding

ID	Title	Level	Credit
295	Perform basic process operations for blow moulding	1	4
296	Operate the blow moulding machine	2	6

Thermoforming Strand

The following standards are required

Manufacturing > Plastics Processing Technology > Thermoforming

ID	Title	Level	Credit
261	Perform basic process operations for thermoforming	1	4
262	Operate the thermoforming machine	2	6

Blown Film Extrusion Strand

The following standards are required

Manufacturing > Plastics Processing Technology > Blown Film Extrusion

ID	Title	Level	Credit
287	Perform basic process operations for blown film extrusion	1	4
288	Operate the blown film extrusion machine	2	8

Film Conversion Strand

The following standards are required

Manufacturing > Plastics Processing Technology > Film Conversion

ID	Title	Level	Credit
275	Perform basic process operations for film conversion	1	3
276	Operate the machine for film conversion	2	7

Injection Stretch-Blow Moulding Strand

The following standards are required

Manufacturing > Plastics Processing Technology > Injection Stretch-Blow Moulding

ID	Title	Level	Credit
15206	Perform basic process operations for injection stretch-blow moulding	1	5
15207	Operate injection stretch-blow moulding equipment	2	6

Rotational Moulding Strand

The following standards are required

Manufacturing > Plastics Processing Technology > Rotational Moulding

ID	Title	Level	Credit
16116	Perform basic process operations for rotational moulding	1	4
16117	Operate the rotational moulding machine	2	6

Transition Arrangements

Version 7

Version 7 was issued to indicate that this qualification is expiring.

All existing candidates may complete version 6 of this qualification or transfer their existing achievements to the National Certificate in Plastics Processing Technology (Technical) (Level 2) with strands [Ref: 0394] as appropriate.

Similarities between [Ref: 0260] and [Ref: 0394]

- All standards in the strands of [Ref: 0260], except for standard 295, are included in [Ref: 0394] and can be used towards meeting its requirements.
- All standards in the Compulsory section, except for 1978, 4248, and 12349, are included in [Ref: 0394] and can be used towards meeting its requirements.

For detailed information see [Review Summaries](#) on the NZQA website.

The Plastics and Materials Processing Industry Training Organisation has endeavoured to ensure that no person has been disadvantaged by this review. Anyone who thinks that they have been disadvantaged should, in the first instance, contact the ITO at the address below.

Previous versions of the qualification

Version 6 was issued following review. Expiring standards 271, 272, and 4795 were replaced by 23128, 23129, and 20917 respectively. Standard 23129 was moved to Core Compulsory. Standard 4249 was removed from the Film Conversion strand to balance the credit adjustment resulting from adding 23129 to the Core Compulsory. Classifications, titles, levels, and credits of standards updated to reflect current versions. Credit totals adjusted from 40-43 to 46-48. The descriptor *Technical* was added to the title.

This qualification contains standards that replace earlier standards. For the purposes of this qualification, people who have gained credit for the expiring standards are exempt from the requirement to gain credit for the replacement standards – see table below.

Credit for	Exempt from
271	23128
272	23129
503	12349
4795	20917

Version 5 was issued to add standards 3503 and 4248 to the Core Compulsory section, and to remove standard 4249 from the Core Compulsory section and add it to the Film Conversion strand. The Core Elective section was removed.

Version 4 was issued to include the domain Driver License Endorsements in the Core Elective section to incorporate changes to driving regulations in relation to fork lift operations.

Version 3 was issued to include strands in Injection Stretch-Blow Moulding and Rotational Moulding.

Version 2 was issued to include additional standards in the core compulsory section, introduce strands and amend the Elective section.

NZQF National Qualification Registration Information

Process	Version	Date	Last Date for Assessment
Registration	1	May 1997	December 1998
Review	2	February 1998	December 2004
Review	3	February 1999	December 2004
Revision	4	April 2000	December 2004
Review	5	October 2002	December 2009

Process	Version	Date	Last Date for Assessment
Review	6	August 2008	December 2011
Review	7	September 2010	December 2011

Standard Setting Body

Plastics and Materials Processing Industry Training Organisation Incorporated
 PO Box 76378
 Manukau City
 Auckland 2241

Telephone 09 254 4877
 Email info@pampito.org.nz

Other standard setting bodies whose standards are included in the qualification

Competenz
 New Zealand Industry Training Organisation
 NZQA

Certification

This certificate will display the logos of NZQA, the Plastics and Materials Processing Industry Training Organisation Incorporated and the organisation that has been granted consent to assess against standards that meet the requirements of the qualification (accredited).

Classification

This qualification is classified according to the classification system listed on the Directory of Assessment Standards (DAS) and the New Zealand Standard Classification of Education (NZSCED) system as specified below.

DAS Classification		NZSCED	
Code	Description	Code	Description
190	Manufacturing > Plastics Processing Technology	030108	Engineering and Related Technologies > Manufacturing, Engineering and Technology > Plastics Processing Technology

Quality Management Systems

Providers and Industry Training Organisations must be granted consent to assess by a recognised Quality Assurance Body before they can register credits from assessment against standards. Accredited providers and Industry Training Organisations assessing against standards must engage with the moderation system that applies to those standards. Accreditation requirements and the moderation system are outlined in the associated Accreditation and Moderation Action Plan (AMAP) for each standard.