

## National Certificate in Manufacturing (Metal and Related Products) (Level 4)

**Level** 4

**Credits** 77

This qualification has been **reviewed**. The last date to meet the requirements is 31 December 2018.

### Transition Arrangements

This qualification was republished in August 2016 to extend the last date for entry to 31 December 2017. This qualification has been reviewed and replaced by the New Zealand Certificate in Manufacturing (Level 4) with optional strand in Technical Support [Ref: 2731].

Last date for entry into the replaced qualification is 31 December 2017.

Last date to meet the requirements is 31 December 2018.

It is recommended that candidates currently enrolled in the replaced qualification who will be unable to complete the qualification by the 31 December 2018 transfer to the New Zealand Certificate identified above.

It is anticipated that no existing candidates will be disadvantaged by these transition arrangements. However, anyone who feels that they have been disadvantaged may appeal to Competenz at the address below. Appeals will be considered on a case by case basis.

This qualification contains an expiring classification in the Elective section that has been replaced. The qualification remains achievable through the other classifications and standards specified in the Elective. For the purposes of this qualification, people who have gained credit for the replacement classification are exempt from the requirement to gain credit for the expiring classification.

<b>Credit from the replacement classification</b>	<b>Treated as credit from the replaced classification</b>
<i>Manufacturing &gt; Manufacturing Skills &gt; Competitive Systems and Practices</i>	<i>Manufacturing &gt; Manufacturing Skills &gt; Competitive Manufacturing</i>

### NZQF National Qualification Registration Information

<b>Process</b>	<b>Version</b>	<b>Date</b>	<b>Last Date for Assessment</b>
Registration	1	June 2008	December 2018

Process	Version	Date	Last Date for Assessment
Revision	2	July 2013	December 2018
Review	3	March 2015	December 2018
Republication	3	August 2016	December 2018

## Standard Setting Body

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Reviewed

## National Certificate in Manufacturing (Metal and Related Products) (Level 4)

<b>Level</b>	<b>4</b>
<b>Credits</b>	<b>77</b>

### Purpose

This qualification is for people who are working as, or training towards, team leaders or supervisors employed in the manufacture of metals and related products. It combines specialised manufacturing processes, with technical skills and management skills expected of team leaders or supervisors in the Metal and Related Product industry.

The compulsory section covers:

- health and safety;
- compliance and regulatory control;
- engineering materials;
- interpersonal communications;
- manufacturing processes;
- quality management;
- systems and resources management;
- writing.

The elective section allows candidates to select from a range of specialised skill standards such as delivery of adult education and training, assessment of learning, competitive manufacturing, mechanical engineering, can making, people development and coordination, quality management, and systems and resources management.

The National Certificate in Manufacturing (Metal and Related Products) (Level 4) [Ref: 1388] builds on the National Certificate in Manufacturing (Metal and Related Products) (Level 3) [Ref: 1387]. It may lead on to further qualifications in the Business field such as the National Diploma in Business (Level 5) [Ref: 0783].

### Replacement Information

This qualification replaced the National Certificate in Manufacturing and Mechanical Engineering (Level 4) [Ref: 0750].

### Special Notes

*Related products* refer to manufactured products with a significant proportion of metallic components.

## Credit Range

	Compulsory	Elective
Level 2 or above credits	4	-
Level 3 or above credits	33	-
Level 4 or above credits	20	20
Minimum totals	57	20

## 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

- Compulsory standards
- Elective – A minimum of 21 credits as specified

## Detailed Requirements

### Compulsory

The following standards are required

Business > Business Operations and Development > People Development and Coordination

ID	Title	Level	Credit
18336	Demonstrate and apply knowledge of team-building skills	4	5

Business > Business Operations and Development > Quality Management

ID	Title	Level	Credit
8085	Demonstrate knowledge of quality and its management	3	4
8087	Use core quality management tools	3	5

Business > Business Operations and Development > Systems and Resources Management

ID	Title	Level	Credit
16342	Identify key workplace organisational principles	4	4

## Engineering and Technology &gt; Mechanical Engineering &gt; Engineering - Materials

ID	Title	Level	Credit
20799	Demonstrate knowledge of common engineering metals	3	4

## Humanities &gt; Communication Skills &gt; Interpersonal Communications

ID	Title	Level	Credit
1307	Speak to a known audience in a predictable situation	3	3
9696	Apply a problem-solving model	4	4
11101	Collaborate within a team or group which has an objective	4	5

## Humanities &gt; Communication Skills &gt; Writing

ID	Title	Level	Credit
1279	Write in plain English	3	3

## Law and Security &gt; Compliance and Law Enforcement &gt; Compliance and Regulatory Control

ID	Title	Level	Credit
10425	Apply the HSE Act 1992 as an employee in a compliance and/or regulatory control workplace	4	2

## Manufacturing &gt; Manufacturing Skills &gt; Manufacturing Processes

ID	Title	Level	Credit
19506	Demonstrate knowledge of company quality policy on a manufacturing site	2	2
19507	Maintain and control a manufacturing process to ensure product quality	3	8
21330	Perform calculations for manufacturing production processes	2	2
21332	Demonstrate basic knowledge of establishing improvements in a manufacturing environment	3	2
21333	Demonstrate basic knowledge of workflow management in a manufacturing environment	3	4

**Elective**

A minimum of 20 credits at Level 4 or above

## Education &gt; Adult Education and Training &gt; Delivery of Adult Education and Training

ID	Title	Level	Credit
7106	Prepare learning plans and provide guidance for individual adult learners	4	5
7108	Deliver on-job training for adult trainees	4	8

ID	Title	Level	Credit
7115	Create and maintain a positive learning environment for adult learners	4	6

Education > Generic Education and Training > Assessment of Learning

ID	Title	Level	Credit
4098	Use standards to assess candidate performance	4	6
11281	Prepare candidate(s) for assessment against standards	4	3
18203	Verify evidence for assessment	4	3

Field	Subfield	Domain
Business	Business Operations and Development	People Development and Coordination
		Quality Management
		Systems and Resources Management
Engineering and Technology	Mechanical Engineering	Any
Manufacturing	Manufacturing Skills	Can Making
		Competitive Manufacturing

## Transition Arrangements

### Version 2

Version 2 was published following a revision.

Changes to structure and content

- The Can Making domain was added to the elective section within the Manufacturing Skills subfield.
- The details of standards 1307, 4098, 7106, 7108, 7115, 8085, 8087, 9696, 11101, 11281, 18203 and 20799 were updated to reflect changes made at review.
- The compulsory credits were increased from 56 to 57, and the elective credit requirements have been reduced from 21 to 20 to maintain the credit total of 77 of which 40 are at Level 4.

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

There are no transition consequences as a result of this revision. However, anyone who feels they have been disadvantaged may appeal to Competenz at the address below.

## Previous versions

Version 1 of this qualification replaced the National Certificate in Manufacturing and Mechanical Engineering (Level 4) [Ref: 0750].

Differences between qualifications included: a new qualification title; credit total reduced from 280 to 77; and a single elective.

The transition arrangements for the replaced qualification expired on 31 December 2012. Any candidate who was unable to complete may transfer their credits to this qualification.

Industry will continue to recognise the former qualification, and there is no requirement for trainees to 'upgrade' to the new qualification.

### Other standard setting bodies whose standards are included in the qualification

NZQA  
The Skills Organisation

### Certification

The certificate will display the logos of NZQA, Competenz 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
78	Manufacturing	030101	Engineering and Related Technologies > Manufacturing, Engineering and Technology>Manufacturing Engineering

#### 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. Organisation with consent to assess and Industry Training Organisations assessing against standards must engage with the moderation system that applies to those standards. Consent to assess requirements and the moderation system are outlined in the associated Consent and Moderation Requirements (CMR) for each standard.