

## **Field: Engineering and Technology**

### **Review of Mechanical Engineering qualifications**

National Certificate in Mechanical Engineering Technology (Level 1) [Ref: 1263]

National Certificate in Mechanical Engineering (Level 2) [Ref: 1220]

National Certificate in Welding (Level 3) [Ref: 1615]

National Certificate in Mechanical Engineering (Level 4) with strands in Fitting and Machining, General Engineering, Machining, Maintenance Engineering, Toolmaking, and Electricity Supply [Ref: 1262]

National Certificate in Metal Casting (Technology) (Level 4) [Ref: 0129]

National Certificate in Engineering – Fabrication (Level 4) with strands in Heavy Fabrication, Light Fabrication, and Steel Construction [Ref: 0122]

National Certificate in Welding (Level 4) [Ref: 1616]

National Certificate in Heating, Ventilating, and Air Conditioning (Mechanical Services) (Level 4) [Ref: 0124]

National Certificate in Locksmithing (Level 4) [Ref: 0452]

National Certificate in Lifts and Escalators (Level 4) with strands in Installation, and Servicing [Ref: 0662]

National Certificate in Mechanical Engineering (Level 5) with strands in Engineering Fabrication, Fire Protection, General and Maintenance Engineering, Mechanical Services, and Precision Engineering [Ref: 1545]

National Certificate in Gunsmithing (Master) (Level 5) [Ref: 0347]

### **Replacement qualifications**

New Zealand Certificate in Mechanical Engineering (Level 3) [Ref: 2715]

New Zealand Certificate in Mechanical Engineering (Trade) (Level 4) with strands in Fitting and Machining, General Engineering, Machining, Maintenance Engineering, Metal Forming, and Toolmaking [Ref: 2714]

New Zealand Certificate in Engineering Fabrication (Trade) (Level 4) with strands in Heavy Fabrication, Light Fabrication, and Steel Construction [Ref: 2719]

New Zealand Certificate in Mechanical Building Services (Trade) (Level 4) [Ref: 2717]

New Zealand Certificate in Locksmithing (Trade) (Level 4) [Ref: 2718]

New Zealand Certificate in Mechanical Engineering (Advanced) (Level 5) [Ref: 2716]

### **Date new versions published**

**August 2015**

The next qualification review is planned to take place during 2020.

## Summary of review and consultation process

The review occurred as a result of the mandatory review of Mechanical Engineering qualifications, part of the Targeted Review of Qualifications (TRoQ). The mandatory review involved extensive consultation with stakeholders working in the industry. Consultation included meetings to design a new qualification suite, and subsequent meetings developed the proposed content of the new qualifications.

The existing National qualifications have been replaced by New Zealand qualifications, as detailed below.

## Main changes resulting from the review

Competenz has worked closely with the Ministry of Education during the development and ongoing review of the Manufacturing and Technology Vocational Pathway within the National Certificate of Educational Achievement (NCEA). During the review of Mechanical Engineering qualifications, it became clear that it was not possible to clearly articulate a differentiation between the Level 1 and Level 2 Mechanical Engineering qualifications and the Vocational Pathways. Given the Government's Better Public Service targets for NCEA achievement, and the ongoing development and implementation of Vocational Pathways, it was decided to expire the National Certificate in Mechanical Engineering Technology (Level 1) [Ref: 1263] and the National Certificate in Mechanical Engineering (Level 2) [Ref: 1220].

Competenz offers a widely used mechanical engineering schools programme called Tools4Work (<http://www.competenz.org.nz/teachers/tools4work>) which is highly regarded within the secondary school sector. Competenz has been working for some years now to align this programme with the Manufacturing and Technology Vocational Pathway.

### National Certificate in Mechanical Engineering Technology (Level 1) [Ref: 1263]

Review category	<b>D</b>	See <b>Key to Qualification Review Categories</b> at the end of report
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### National Certificate in Mechanical Engineering (Level 2) [Ref: 1220]

Review category	<b>D</b>	See <b>Key to Qualification Review Categories</b> at the end of report
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### National Certificate in Welding (Level 3) [Ref: 1615]

*replaced by*

### **New Zealand Certificate in Mechanical Engineering (Level 3) [Ref: 2715]**

Review category	<b>C</b>	See <b>Key to Qualification Review Categories</b> at the end of report
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National Certificate in Mechanical Engineering (Level 4) with strands in Fitting and Machining, General Engineering, Machining, Maintenance Engineering, Toolmaking, and Electricity Supply [Ref: 1262], and National Certificate in Metal Casting (Technology)

(Level 4) [Ref: 0129]

*replaced by*

**New Zealand Certificate in Mechanical Engineering (Trade) (Level 4) with strands in Fitting and Machining, General Engineering, Machining, Maintenance Engineering, Metal Forming, and Toolmaking [Ref: 2714]**

Review category	<b>C</b>	See <b>Key to Qualification Review Categories</b> at the end of report
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National Certificate in Engineering – Fabrication (Level 4) with strands in Heavy Fabrication, Light Fabrication, and Steel Construction [Ref: 0122], and

National Certificate in Welding (Level 4) [Ref: 1616]

*replaced by*

**New Zealand Certificate in Engineering Fabrication (Trade) (Level 4) with strands in Heavy Fabrication, Light Fabrication, and Steel Construction [Ref:2719]**

Review category	<b>C</b>	See <b>Key to Qualification Review Categories</b> at the end of report
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National Certificate in Heating, Ventilating, and Air Conditioning (Mechanical Services) (Level 4) [Ref: 0124]

*replaced by*

**New Zealand Certificate in Mechanical Building Services (Trade) (Level 4) [Ref: 2717]**

Review category	<b>C</b>	See <b>Key to Qualification Review Categories</b> at the end of report
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National Certificate in Locksmithing (Level 4) [Ref: 0452]

*replaced by*

**New Zealand Certificate in Locksmithing (Trade) (Level 4) [Ref: 2718]**

Review category	<b>C</b>	See <b>Key to Qualification Review Categories</b> at the end of report
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National Certificate in Lifts and Escalators (Level 4) with strands in Installation, and Servicing [Ref: 0662]

Review category	<b>D</b>	See <b>Key to Qualification Review Categories</b> at the end of report
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National Certificate in Mechanical Engineering (Level 5) with strands in Engineering Fabrication, Fire Protection, General and Maintenance Engineering, Mechanical Services, and Precision Engineering [Ref: 1545]

*replaced by*

**New Zealand Certificate in Mechanical Engineering (Advanced) (Level 5) [Ref: 2716]**

Review category	<b>C</b>	See <b>Key to Qualification Review Categories</b> at the end of report
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## National Certificate in Gunsmithing (Master) (Level 5) [Ref: 0347]

Review category	<b>D</b>	See <b>Key to Qualification Review Categories</b> at the end of report
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**Transition**

The National Certificate in Lifts and Escalators (Level 4) with strands in Installation, and Servicing [Ref: 0662] and the National Certificate in Gunsmithing (Master) (Level 5) [Ref: 0347] will expire on 31 December 2015.

For the expiring National Certificate in Mechanical Engineering Technology (Level 1) [Ref: 1263] and National Certificate in Mechanical Engineering (Level 2) [Ref: 1220], new enrolments will not be accepted from 31 December 2017, with the final assessment date 31 December 2019.

New enrolments into programmes leading to the any of the National qualifications that are being replaced will not be accepted from 31 December 2016.

People currently working towards the National qualifications replaced above, unless specified otherwise, may either complete the requirements for that National qualification by the date below, or transfer the results to the superseding New Zealand qualification:

- New Zealand Certificate in Mechanical Engineering (Level 3) [Ref: 2715] 31 December 2018
- New Zealand Certificate in Mechanical Engineering (Trade) (Level 4) with strands in Fitting and Machining, General Engineering, Machining, Maintenance Engineering, Metal Forming, and Toolmaking [Ref: 2714] 31 December 2021
- New Zealand Certificate in Engineering Fabrication (Trade) (Level 4) with strands in Heavy Fabrication, Light Fabrication, and Steel Construction [Ref: 2719] 31 December 2021
- New Zealand Certificate in Mechanical Building Services (Trade) (Level 4) [Ref: 2717] 31 December 2021
- New Zealand Certificate in Locksmithing (Trade) (Level 4) [Ref: 2718] 31 December 2021
- New Zealand Certificate in Mechanical Engineering (Advanced) (Level 5) [Ref: 2716] 31 December 2019

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.

Competenz  
PO Box 9005  
Newmarket  
Auckland 1149

Telephone 09 539 9800  
Email [qualifications@competenz.org.nz](mailto:qualifications@competenz.org.nz)

### Key to Qualification Review Categories

<b>Category A</b> The qualification is published as a new version with the same NQF ID	Changes are made to SSB name, contact details or purpose statement
	No change is made to title, rules or components of the qualification
	No transition arrangements are required
<b>Category B</b> The qualification is published as a new version with the same NQF ID	Changes are made to title, rules or components
	The new version of the qualification recognises a similar skill set to that recognised by the previous version
	The SSB is confident that people awarded the new or previous version are comparable in terms of competence
	Transition arrangements are required if candidates must gain additional/different credits for the new version
<b>Category C</b> A new (replacement) qualification is published with new NQF ID	Significant changes are made to the qualification in terms of components, structure, type or level
	The SSB views people with the replacement qualification as being significantly different in terms of competence from those with the replaced qualification
	Transition arrangements are required
	Transition may be limited to phase-out dates
<b>Category D</b> Qualification will expire. There is no replacement qualification	Qualification is no longer required by industry
	The qualification is designated as expiring and a last date for meeting the qualification requirements is set