

Field: Engineering and Related Technologies

Change report for the review of Aeronautical Engineering New Zealand Qualifications

Reviewed qualifications

[Ref]	Version	Qualification title	Level	Credits
2898	1	New Zealand Certificate in Aeronautical Engineering (Pre- Employment Skills)	3	130
2899	1	New Zealand Certificate in Aeronautical Engineering (Production Control)	6	55
2900	1	New Zealand Certificate in Aeronautical Engineering (Specialist Support) with strands in General Aviation, Aeronautical Composites, Aeronautical Electroplating, Aeronautical Machining, Aeronautical Non Destructive Testing, Aircraft Furnishings and Equipment, Aircraft Mechanical, Aircraft Painting, Aircraft Powerplant, Aircraft Structures, Armament, Avionics, and Rotorcraft	4	120
2901	1	New Zealand Certificate in Aeronautical Engineering (Workplace Introductory Skills)	4	120
2902	1	New Zealand Certificate in Aeronautical Storekeeping (Aviation Parts Handling/Aviation Toolstore)	3	70
2903	1	New Zealand Certificate in Aircraft Servicing	3	80
2904	1	New Zealand Diploma in Aeronautical Engineering (Maintenance Planning)	5	120
2905	1	New Zealand Diploma in Aeronautical Engineering (Quality Assurance)	6	134
2906	1	New Zealand Diploma in Aeronautical Engineering (Technical Support)	6	130
2907	1	New Zealand Diploma in Aeronautical Maintenance Certification with strands in Aeroplane, Rotorcraft, Powerplant Piston, Powerplant Turbine, Electrical, Instrument, and Radio	6	240
2908	1	New Zealand Certificate in Aeronautical Engineering (Aircraft Manufacture)	4	120
2909	1	New Zealand Certificate in Aeronautical Engineering (Applied Skills) with strands in Aeronautical Composites, Aeronautical Non Destructive Testing, Aircraft Mechanical, Aircraft Powerplant, Aircraft Structures, Armament, Avionic Electrical Repair, Avionic Instrument Repair, Avionic Radio Repair, Avionic Maintenance, and Rotorcraft	4	210
2910	1	New Zealand Certificate in Aeronautical Engineering (Gas Turbine Overhaul)	4	200
2911	1	New Zealand Certificate in Aeronautical Engineering (Maintenance Control)	4	43

Review information

Qualification Developer	Ringa Hora Services Workforce Development Council
Reason for the review	Scheduled review
Review date	September 2022
Outcome date	December 2022
Next review date	December 2027

Summary of review and consultation process

In late 2021, a review of the Aeronautical Engineering qualifications commenced. As part of the review, the possibility of creating a pathway between the Aeronautical Engineering sector and the specialist Aerospace sector, and vice versa was identified, following the creation in 2020 of an Aerospace Apprenticeship utilising an Aeronautical Engineering qualification.

Consultation took place to ensure current practice and regulations were being met, and any gaps were identified and addressed. Advice on technical content was provided by the Aeronautical Engineering Industry Advisory Group, which informed the qualifications, as well as considering programme design. The Aeronautical Engineering Industry Advisory Group included providers, workplaces, Industry Association, and the Regulator. An initial in-person meeting was held, followed up by additional email consultation and endorsement.

Two qualifications were identified with zero usage, and the decision was made to expire these without replacement.

A new qualification was developed to meet the needs of the Aerospace Engineering sector, with the structure of the qualification allowing for further development of programme components without affecting the qualification. Consultation was carried out involving the wider Aeronautical Engineering Industry Advisory Group, where full support was given.

Main changes resulting from the review

Changes applied across all qualifications included:

- Minor amendments to reflect NZQA requirements for listing.
- Updates to the assuring consistency requirements.
- Information has been added for programme developers regarding programme endorsement considerations.

Specific changes:

New Zealand Certificate in Aeronautical Engineering (Pre- Employment Skills) (Level 3) [Ref: 2898]

- Graduate profile outcomes 2, 3, 5, and 6 were amended to better clarify the intent of the outcomes.
- Information removed from the above graduate outcomes was moved to the general conditions for programme.

New Zealand Certificate in Aeronautical Engineering (Production Control) (Level 6) [Ref: 2899]

This qualification was designated expiring and replaced by the **New Zealand Diploma in Aeronautical Engineering (Production Control) (Level 6) [Ref: 4742]**

Differences between the two qualifications include:

- Qualification increased in credit value from 55 credits to 130 credits.
- Qualification went from being a certificate to become a diploma.
- Mandatory standards 10798 – 10802 were replaced by mandatory standards 32829 – 32833.
- Minor amendment to wording of outcome 1.

New Zealand Certificate in Aeronautical Engineering (Specialist Support) (Level 4) with strands in General Aviation, Aeronautical Composites, Aeronautical Electroplating, Aeronautical Machining, Aeronautical Non Destructive Testing, Aircraft Furnishings and Equipment, Aircraft Mechanical, Aircraft Painting, Aircraft Powerplant, Aircraft Structures, Armament, Avionics, Engine Ground Running, and Rotorcraft [Ref: 2900]

- Minor amendments to reflect current legislation.
- New strand added for engine ground running.
- Additional requirements for Engine Ground Runner added to general conditions for programme.
- Recommended standards and domains removed from conditions.
- Information has been added for programme developers regarding additional guidance and

recommendations for programme development.

New Zealand Certificate in Aeronautical Engineering (Workplace Introductory Skills) (Level 4) [Ref: 2901]

- Qualification 2900 added to education pathway.
- Recommended standards removed from conditions.

New Zealand Certificate in Aeronautical Storekeeping (Aviation Parts Handling/Aviation Toolstore) [Ref: 2902]

- Minor amendments to reflect current legislation.
- Qualifications 2572 and 2573 added to education pathway.
- Recommended standards removed from conditions.
- Information has been added for programme developers regarding additional guidance and recommendations for programme development.

New Zealand Certificate in Aircraft Servicing [Ref: 2903]

- Minor amendments to reflect current legislation.
- Recommended standards and domains removed from conditions.
- Information has been added for programme developers regarding additional guidance and recommendations for programme development.

New Zealand Diploma in Aeronautical Engineering (Maintenance Planning) (Level 5) [Ref: 2904]

- Minor amendments to reflect current legislation.
- Graduate profile outcomes were reduced from 4 to 2, to make the qualification more accessible to a wide range of workplaces and job roles.
- Credit allocation was adjusted to account for the restructure of the qualification.
- Additional guidance for role divisions was added to general conditions for programme.
- Recommended standards and domains removed from conditions.
- Information has been added for programme developers regarding additional guidance and recommendations for programme development.

New Zealand Diploma in Aeronautical Engineering (Quality and Safety – SMS) (Level 6) [Ref: 2905]

- Minor amendments to reflect current legislation.
- Title was amended from Quality Assurance to Quality and Safety – SMS to better reflect current industry practice.
- Additional graduate profile outcome added for risk identification.
- Qualification increased in credit value from 134 credits to 149 credits to reflect additional graduate profile outcome.

New Zealand Diploma in Aeronautical Engineering (Technical Support) (Level 6) [Ref: 2906]

- Recommended domains removed from conditions.
- Information has been added for programme developers regarding additional guidance and recommendations for programme development.

New Zealand Diploma in Aeronautical Maintenance Certification (Level 6) with strands in Aeroplane, Rotorcraft, Powerplant Piston, Powerplant Turbine, Electrical, Instrument, and Radio [Ref: 2907]

- Minor amendments to reflect current legislation.
- Graduate profile outcome 1 amended to reflect current industry terminology.
- Qualifications 2905 and 2906 added to education pathway.
- Mandatory standard 26966 removed from graduate profile outcome 6.
- Mandatory standard 26967 removed from graduate profile outcome 7.
- Mandatory standard 26968 removed from graduate profile outcome 8.
- Recommended standards and domains removed from conditions.
- Information has been added for programme developers regarding additional guidance and recommendations for programme development.

New Zealand Certificate in Aeronautical Engineering (Aircraft Manufacture) (Level 4) [Ref: 2908]

- Minor amendments to reflect current legislation.
- Recommended standards removed from conditions.
- Information has been added for programme developers regarding additional guidance and recommendations for programme development.

New Zealand Certificate in Aeronautical Engineering (Applied Skills) (Level 4) with strands in Aeronautical Composites, Aeronautical Non Destructive Testing, Aircraft Mechanical, Aircraft Powerplant, Aircraft Structures, Armament, Avionic Electrical Repair, Avionic Instrument Repair, Avionic Radio Repair, Avionic Maintenance, and Rotorcraft [Ref: 2909]

- Minor amendments to reflect current legislation.
- Recommended standards and domains removed from conditions.
- Information has been added for programme developers regarding additional guidance and recommendations for programme development.

New Zealand Certificate in Aeronautical Engineering (Gas Turbine Overhaul) (Level 4) [Ref: 2910]

The qualification is no longer required by industry and will expire with no replacement.

New Zealand Certificate in Aeronautical Engineering (Maintenance Control) (Level 4) [Ref: 2911]

The qualification is no longer required by industry and will expire with no replacement.

New Zealand Certificate in Aerospace Engineering (Level 4) [Ref: 4741]

A new qualification was identified and developed for the Aerospace Engineering sector.

Review outcome

Reference	Version	Reviewed qualification	Outcome category	New qualification details/version (if applicable)
2898	2	New Zealand Certificate in Aeronautical Engineering (Pre- Employment Skills) (Level 3)	<i>B-New version of qualification</i>	2898-2
2899	2	New Zealand Certificate in Aeronautical Engineering (Production Control) (Level 6) New Zealand Diploma in Aeronautical Engineering (Production Control) (Level 6)	<i>C-New replacement qualification</i>	2899-2 4742-1
2900	2	New Zealand Certificate in Aeronautical Engineering (Specialist Support) (Level 4) with strands in General Aviation, Aeronautical Composites, Aeronautical Electroplating, Aeronautical Machining, Aeronautical Non Destructive Testing, Aircraft Furnishings and Equipment, Aircraft Mechanical, Aircraft Painting, Aircraft Powerplant, Aircraft Structures, Armament, Avionics, and Rotorcraft New Zealand Certificate in Aeronautical Engineering (Specialist Support) (Level 4) with strands in General Aviation, Aeronautical Composites, Aeronautical Electroplating, Aeronautical Machining, Aeronautical Non Destructive Testing, Aircraft Furnishings and Equipment, Aircraft Mechanical, Aircraft Painting, Aircraft Powerplant, Aircraft Structures, Armament,	<i>B-New version of qualification</i>	2900-2

		Avionics, Engine Ground Running, and Rotorcraft		
2901	2	New Zealand Certificate in Aeronautical Engineering (Workplace Introductory Skills) (Level 4)	<i>B-New version of qualification</i>	2901-2
2902	2	New Zealand Certificate in Aeronautical Storekeeping (Aviation Parts Handling/Aviation Toolstore)	<i>B-New version of qualification</i>	2902-2
2903	2	New Zealand Certificate in Aircraft Servicing	<i>B-New version of qualification</i>	2903-2
2904	2	New Zealand Diploma in Aeronautical Engineering (Maintenance Planning) (Level 5)	<i>B-New version of qualification</i>	2904-2
2905	2	New Zealand Diploma in Aeronautical Engineering (Quality Assurance) (Level 6) New Zealand Diploma in Aeronautical Engineering (Quality and Safety – SMS) (Level 6)	<i>B-New version of qualification</i>	2905-2
2906	2	New Zealand Diploma in Aeronautical Engineering (Technical Support) (Level 6)	<i>B-New version of qualification</i>	2906-2
2907	2	New Zealand Diploma in Aeronautical Maintenance Certification (Level 6) with strands in Aeroplane, Rotorcraft, Powerplant Piston, Powerplant Turbine, Electrical, Instrument, and Radio	<i>B-New version of qualification</i>	2907-2
2908	2	New Zealand Certificate in Aeronautical Engineering (Aircraft Manufacture) (Level 4)	<i>B-New version of qualification</i>	2908-2
2909	2	New Zealand Certificate in Aeronautical Engineering (Applied Skills) (Level 4) with strands in Aeronautical Composites, Aeronautical Non Destructive Testing, Aircraft Mechanical, Aircraft Powerplant, Aircraft Structures, Armament, Avionic Electrical Repair, Avionic Instrument Repair, Avionic Radio Repair, Avionic Maintenance, and Rotorcraft	<i>B-New version of qualification</i>	2909-2
2910	2	New Zealand Certificate in Aeronautical Engineering (Gas Turbine Overhaul) (Level 4)	<i>D-Qualification will expire with no replacement</i>	2910-2
2911	2	New Zealand Certificate in Aeronautical Engineering (Maintenance Control) (Level 4)	<i>D-Qualification will expire with no replacement</i>	2911-2
4741	1	New Zealand Certificate in Aerospace Engineering (Level 4)	New	4741-1

Qualification review outcome categories

Outcome	Result	Category
No changes are identified to the qualification	Qualification version number and NZQF ID remain the same. New review date is required.	A
Minor changes are identified to the qualification	New version of qualification is required (NZQF ID remains the same).	B

	New review date is required.	
Significant changes are required to the qualification	New replacement qualification is required with a new NZQF ID. The existing qualification will expire.	C
The qualification is no longer required by industry	The qualification will expire with no replacement.	D

Transition information

Reference	Version	Qualification title	Last date of entry*	Last date of assessment
2898	1	New Zealand Certificate in Aeronautical Engineering (Pre-Employment Skills) (Level 3)	N/A	31 December 2026
2899	1	New Zealand Certificate in Aeronautical Engineering (Production Control) (Level 6)	31 December 2025	31 December 2026
2900	1	New Zealand Certificate in Aeronautical Engineering (Specialist Support) (Level 4) with strands in General Aviation, Aeronautical Composites, Aeronautical Electroplating, Aeronautical Machining, Aeronautical Non Destructive Testing, Aircraft Furnishings and Equipment, Aircraft Mechanical, Aircraft Painting, Aircraft Powerplant, Aircraft Structures, Armament, Avionics, and Rotorcraft	N/A	31 December 2026
2901	1	New Zealand Certificate in Aeronautical Engineering (Workplace Introductory Skills) (Level 4)	N/A	31 December 2026
2902	1	New Zealand Certificate in Aeronautical Storekeeping (Aviation Parts Handling/Aviation Toolstore)	N/A	31 December 2026
2903	1	New Zealand Certificate in Aircraft Servicing	N/A	31 December 2026
2904	1	New Zealand Diploma in Aeronautical Engineering (Maintenance Planning) (Level 5)	N/A	31 December 2026
2905	1	New Zealand Diploma in Aeronautical Engineering (Quality Assurance)	N/A	31 December 2026
2906	1	New Zealand Diploma in Aeronautical Engineering (Technical Support) (Level 6)	N/A	31 December 2026
2907	1	New Zealand Diploma in Aeronautical Maintenance Certification (Level 6) with strands in Aeroplane, Rotorcraft, Powerplant Piston, Powerplant Turbine, Electrical, Instrument, and Radio	N/A	31 December 2026
2908	1	New Zealand Certificate in Aeronautical Engineering (Aircraft Manufacture) (Level 4)	N/A	31 December 2026
2909	1	New Zealand Certificate in Aeronautical Engineering (Applied Skills) (Level 4) with strands in Aeronautical Composites, Aeronautical Non Destructive Testing, Aircraft Mechanical, Aircraft Powerplant, Aircraft Structures, Armament, Avionic Electrical Repair, Avionic Instrument Repair, Avionic Radio Repair, Avionic Maintenance, and Rotorcraft	N/A	31 December 2026
2910	1	New Zealand Certificate in Aeronautical Engineering (Gas	31 December	31 December

		Turbine Overhaul) (Level 4	2023	2024
2911	1	New Zealand Certificate in Aeronautical Engineering (Maintenance Control) (Level 4)	31 December 2023	31 December 2024

**only required for outcome category C or D*

Any additional information

It is the intention of Ringa Hora Services Workforce Development Council that no person should be disadvantaged by these transition arrangements.

Any person who considers they have been disadvantaged may appeal to:

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Web: www.ringahora.nz

Email Qualifications@ringahora.nz