

during this review reflect the replacement of the NQF and the Register with the New Zealand Qualifications Framework (NZQF) and the Directory of Assessment Standards, the inclusion of criteria for grades, and changes to terminology and format of unit standards. The main changes to terminology are that:

Special Notes were renamed *Explanatory notes*

Elements were renamed *Outcomes*

Performance Criteria were renamed *Evidence requirements*.

The standards covered by this report have been published in the new format.

The Category D unit standard will expire at the end of December 2016

Impact on registered qualifications

Key to type of impact	
Affected	The qualification lists a reviewed classification (domain or subfield) in an elective set The qualification lists a standard that has changes to level or credits The qualification lists a C or D category standard
Not materially affected	The qualification lists a standard that has a new title The qualification lists a standard that has a new classification

The following Competenz qualifications are impacted by the outcome of this review and will be updated when they are revised or reviewed. Ref: 0122 and Ref: 0124 will be reviewed in 2014 and 2016 respectively. The remaining qualifications are scheduled for review in 2011/2012. The classifications and/or standards that generated the status *Affected* are listed in **bold**.

Ref	Qualification Title	ID
0122	National Certificate in Engineering - Fabrication (Level 4) with strands in Heavy Fabrication, Light Fabrication, and Steel Construction	2430-2433, 21905, 21908, 21911, 21913
0124	National Certificate in Heating, Ventilating, and Air conditioning (Mechanical Services) (Level 4)	2430-2432, 21905, 21908, 21911, 21913
0129	National Certificate in Metal Casting (Technology)	2430-2433, 21905, 21911, 21913
0130	National Certificate in Refrigeration and Air Conditioning (Level 4)	21911, 21913
0452	National Certificate in Locksmithing	21911
0534	National Diploma in Engineering (Level 6) with strands in Mechanical Engineering, Production Engineering, and Mechanical Services, and with an optional strand in Practical Endorsement	2430, 21911
0568	National Certificate in Hand Operated Fire Fighting Equipment (Level 3)	21911
0570	National Certificate in Fixed Fire Protection Systems (Level 4)	2430, 21911
0662	National Certificate in Lifts and Escalators (Level 4) with strands in Installation, and Servicing	2430, 2431
0863	National Certificate in Fixed Fire Protection Systems (Level 3) with strands in Installation, and Testing	21911
0864	National Certificate in Fire Protection Systems Technology (Inspection and Testing) (Level 4)	21911
1220	National Certificate in Mechanical Engineering (Level 2)	2430, 2432, 21905, 21908, 21911, 21913
1242	National Certificate in Split System Air Conditioning (Level 3)	21911
1262	National Certificate in Mechanical Engineering (Level 4) with strands in Fitting and Machining, General Engineering, Machining, Maintenance Engineering, Toolmaking, and Electricity Supply [Ref: 1262]	2430-2433, 2434, 21905, 21908, 21911, 21913
1615	National Certificate in Welding (Level 3)	2430, 2432, 21911

The following table identifies qualifications developed by other SSBs that are impacted by the outcome of this review. The SSBs have been advised that the qualifications require revision. The classifications and/or standards that generated the status *Affected* are listed in **bold**.

Ref	Qualification Title	ID	SSB Name
0171	National Certificate in Aircraft Servicing	21911	Aviation, Tourism and Travel Training Organisation
0191	National Certificate in Aeronautical Engineering (Specialist Support) with optional strands in 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	21911	
0192	National Certificate in Aeronautical Engineering with strands in Aeronautical Non Destructive Testing, Aircraft Mechanical, Aircraft Powerplant, Aircraft Structures, Armament, Avionic Electrical Repair, Avionic Instrument Repair, Avionic Maintenance, Avionic Radio Repair, and Rotorcraft	21911	
0381	National Certificate in Aeronautical Engineering (Related Technology)	21911	
0618	National Certificate in Aeronautical Storekeeping	21911	
0742	National Certificate in Aeronautical Engineering (Aircraft Manufacture)	2430, 21905 , 21911	
1366	National Certificate in Aeronautical Engineering (Gas Turbine Overhaul)	21911	
1293	National Certificate in Electricity Supply (Level 2) with optional strands in Electrical, Electrical Fitter, and Line Mechanic	2430	Electricity Supply Industry Training Organisation
1304	National Certificate in Wood Manufacturing - Generic Skills (Workplace Safety and Operations) (Level 2)	21911	Forest Industries Training and Education Council (FITEC)
1504	National Certificate in Furniture (Level 4) with strands in Furniture Design and Markets, Craft Finisher, Machine Setter, Furniture Maker, Advanced Upholstery, and Computer Numerical Controlled Machinery (CNC)	2433, 20804	
0765	National Certificate in Architectural Aluminium Joinery (Entry Skills) (Level 2)	21911	
1103	National Certificate in Glass Processing	2433	Joinery Industry Training Organisation
1484	National Certificate in Joinery with strands in Kitchen Manufacturing, and Kitchen Installation	2433	
0121	National Certificate in Composites (Level 4)	2430	NZ Marine

Ref	Qualification Title	ID	SSB Name
0877	National Certificate in Boatbuilding (Level 4) with strands in Marine Cabinetmaking, Composite Sparmaking, Alloy Boatbuilding, Marine Rigging, Interior and Exterior Marine Painting, Composite Boatbuilding, Steel Boatbuilding, Wooden Boatbuilding, Marine Systems Engineering, Metal Sparmaking, Composite Production Trailer Boats, and Alloy Production Trailer Boats	2430, 2431, 2434	Industry Training Organisation
1157	National Certificate in Composites (Level 3)	2430,	
1413	National Certificate in Motor Industry (Automotive Body) with strands in Coachbuilding, Collision Repair, Dismantling and Recycling, Refinishing, and Vehicle Detailing	2430, 2431, 2432	NZ Motor Industry Training Organisation (Incorporated)
1414	National Certificate in Motor Industry (Automotive Body) (Level 4) with strands in Coachbuilding, Collision Repair, and Refinishing	2433	
1416	National Certificate in Motor Industry (Automotive Specialist Engineering) (Level 4) with strands in Automotive Heating, Ventilation, and Air Conditioning; Automotive Machining; Diesel Fuel Injection; and Motorsport	2431, 2432, 2433	
0394	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	21911, 21913	
1233	National Certificate in Pharmaceutical and Allied Products Manufacturing (Level 1)	21911	
1235	National Certificate in Engineering and Technology (Pharmaceutical and Allied Products) (Level 2)	2430-2433, 21911	
1362	National Certificate in Plastics Processing Technology (Production) (Level 2) with strands in General, Injection Moulding, Extrusion, Blow Moulding, Pressure Thermoforming, Vacuum Thermoforming, Blown Film Extrusion, Film Conversion, Injection Stretch-Blow Moulding, Rotational Moulding, Expanded Polystyrene Moulding, and Polystyrene Pre-expansion	21911, 21913	
1364	National Certificate in Paint Manufacturing (Level 2)	21911	

Ref	Qualification Title	ID	SSB Name
1378	National Certificate in Engineering and Technology (Glass Container Mould Maintenance) (Level 2)	2430-2432, 21911	
1407	National Certificate in Engineering and Technology (Plastics Engineering) (Level 4) with strands in Injection Moulding, Extrusion, Blow Moulding, Pressure Thermoforming, Vacuum Thermoforming, Blown Film Extrusion, Film Conversion, Injection Stretch-Blow Moulding, and Rotational Moulding	2430-2432, 21911 , 21913 ,	
0439	National Certificate in Snowsport with strands in Aerial Lift Operation, Road and Carpark Services, and Surface Lift Operation	21911	Skills Active Aotearoa Limited
0440	National Certificate in Snowsport Equipment	21911	

Detailed list of unit standards – classification, title, level, and credits

All changes are in **bold**.

Key to review category	
A	Dates changed, but no other changes are made - the new version of the standard carries the same ID and a new version number
B	Changes made, but the overall outcome remains the same - the new version of the standard carries the same ID and a new version number
C	Major changes that necessitate the registration of a replacement standard with a new ID
D	Standard will expire and not be replaced

Engineering and Technology > Mechanical Engineering > Engineering Core Skills

ID	Title	Level	Credit	Review Category
2395	Select, use, and care for, engineering hand tools	2	4	B
2396	Select, use and maintain portable hand held engineering power tools	2	4	B
21905	Demonstrate knowledge of trade calculations and units for mechanical engineering trades	2	4 6	B
21906	Perform basic mechanical engineering machining operations under supervision	2	12	B
21908	Demonstrate knowledge of basic mechanics for mechanical engineering trades	2	2 3	B
21909	Demonstrate knowledge of fasteners used in mechanical engineering	2	1	B
21911	Demonstrate knowledge of safety on engineering worksites	2	1 2	B
21912	Apply safe working practices on an engineering worksite	2	2	B
21913	Shift loads in engineering installation, maintenance, and fabrication work	2	2	D
22897	Demonstrate and apply knowledge of mechanical fitting	3	5	B

ID	Title	Level	Credit	Review Category
22898	Demonstrate and apply knowledge of machine levelling and alignment	3	3	B
22899	Demonstrate knowledge of mechanical power transmission	3	3	B
22900	Demonstrate knowledge of job costing in mechanical engineering	4	2	B

Engineering and Technology > Mechanical Engineering > Engineering Drawing and Design

ID	Title	Level	Credit	Review Category
2430	Draw and interpret engineering sketches under supervision Manually produce and interpret engineering sketches under supervision	2	4	B
2431	Draw and interpret engineering drawings under supervision Manually produce, and interpret simple engineering component drawings under supervision	2	8	B
2432	Construct engineering plane geometric shapes under supervision Manually construct plane geometric shapes for engineering	2	3	B
2433	Create simple engineering drawings using computer aided design (CAD) software Produce simple engineering component drawings using CAD software	2	6	B
2434	Manually produce detailed engineering drawings under supervision	3	15 12	B
2436	Create three-dimensional engineering models under supervision	3	5	B
4434	Demonstrate knowledge of basic geometric form in engineering	1	1	B
20802	Produce detailed two-dimensional engineering drawings using CAD software under supervision	3	5 6	B
20803	Manually produce advanced two-dimensional engineering drawings	4	12	B
20804	Produce advanced two-dimensional engineering drawings using CAD software	4	10 8	B
21910	Interpret mechanical engineering drawings	3	5	B