

FIELD ENGINEERING AND TECHNOLOGY**Review of *Welding* unit standard 2670**

Subfield	Domain	Id
Mechanical Engineering	Welding	2670

Competenz has completed the review of the unit standard listed above that was registered in April 2001.

Date report published

September 2005

Summary of review and consultation process

Competenz is in the process of reviewing a number of qualifications in Mechanical Engineering. After wide consultation, new qualification structures have been endorsed by the industry, and these require that unit standard 2670 be replaced with a standard that better meets modern welding requirements.

Main changes resulting from the review

Unit standard 2670 is replaced by Unit 21907, *Demonstrate and apply knowledge of safe welding procedures under supervision*. A number of new unit standards have also been developed for use in entry level training in mechanical engineering and related trades.

Unit standard 2670 will expire at the end of December 2009.

Impact on existing provider accreditations

Current Accreditation for			Accreditation extended to		
Nature of accreditation	Classification or Id	Level	Nature of accreditation	Classification or Id	Level
Standard	2670	2	Standard	21907	2

Impact on Accreditation and Moderation Action Plan (AMAP)

None.

Impact on existing qualifications

Qualifications that contain the reviewed standards or classifications are tabled below.

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 affected by the outcome of the review of unit standard 2670 and will be revised or reviewed in 2006.

Qualification title
National Certificate in Engineering - Fabrication (Level 4) with strands in Heavy Fabrication, Light Fabrication, and Welding [Ref: 0122]
National Certificate in Engineering (General Engineering - Mechanical) (Level 2) [Ref: 0903]
National Certificate in Gunsmithing (Level 4) [Ref: 0346]
National Certificate in Heating, Ventilating, and Air Conditioning (Mechanical Services) (Level 4) [Ref: 0124]
National Certificate in Lifts and Escalators (Level 4) with strands in Installation, and Servicing [Ref: 0662]
National Certificate in Locksmithing (Level 4) [Ref: 0452]
National Certificate in Maintenance and Diagnostics in Mechanical Engineering (Level 4) [Ref: 0125]
National Certificate in Maritime (Merchant Navy Deck and Engine Room Watch Rating) [Ref: 0259]
National Certificate in Metal Casting (Technology) (Level 4) [Ref: 0129]
National Certificate in Refrigeration and Air Conditioning (Level 4) [Ref: 0130]

The following qualifications are also affected by the outcome of the review of unit standard 2670. The standard setting bodies (SSBs) have been advised that they require revision.

Qualification title	SSB Name
National Certificate in Electricity Supply (Electrical) (Level 3) [Ref: 0888]	Electricity Supply Industry Training Organisation
National Certificate in Electricity Supply (Electrical) (Level 4) [Ref: 0921]	
National Certificate in Electricity Supply (Thermal Plant Operator) (Level 4) with strands in Thermal Plant Operations, Combined Cycle Operations, and Co-generation Operations [Ref: 0894]	
National Certificate in Electrical Appliance Servicing [Ref: 0827]	ElectroTechnology Industry Training Organisation
National Certificate in Demolition (Introductory Skills) (Level 2) [Ref: 1085]	InfraTrain New Zealand
National Certificate in Motor Industry (Coachbuilding) with strands in Passenger Service Vehicles, Commercial Vehicles Strand, and Motor Homes and Caravans [Ref: 0413]	NZ Motor Industry Training Organisation
National Certificate in Engineering and Technology (Glass Containers) (Level 2) [Ref: 0947]	Plastics and Materials Processing Industry Training Organisation
National Certificate in Engineering and Technology (Plastics Engineering) (Level 3) [Ref: 0477]	

Summary of main changes to standards' Ids, classification, titles, levels, and credits

The following summary shows the changes made to the standards as a result of the review. All changes are in **bold**.

Key to review category	
A	Dates changed, but no other changes are made - the replacement standard carries the same Id and a new version number
B	Changes made, but the overall outcome remains the same - the replacement 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

Field Engineering and Technology
 Subfield Mechanical Engineering
 Domain Welding

Id	Title	Level	Credit	Review Category
2670	Avoid welding hazards with safe work practices	2	1	C
21907	Demonstrate and apply knowledge of safe welding procedures under supervision	2	3	

Domain Engineering Core Skills

Id	Title	Level	Credit	Review Category
21905	Demonstrate knowledge of trade calculations and units for mechanical engineering trades	2	4	New
21906	Perform basic mechanical engineering machining operations under supervision	2	12	New
21908	Demonstrate knowledge of basic mechanics for mechanical engineering trades	2	2	New
21909	Demonstrate knowledge of fasteners used in mechanical engineering	2	1	New

Domain Engineering Drawing and Design

Id	Title	Level	Credit	Review Category
21910	Interpret mechanical engineering drawings	3	5	New