

Field Manufacturing**Review of *Boating Industries* unit standards 9913 and 9926**

Subfield	Domain	ID
Boating Industries	Marine Sales and Services	9913
	Boatbuilding	9926

The Boating Industry Training Organisation has completed the review of the unit standards listed above.

Date new versions published **May 2010**

Planned review date **December 2014**

Summary of review and consultation process

These unit standards were reviewed to ensure alignment with current industry practice and requirements. As part of this review it was acknowledged that a number of new unit standards were required to meet the needs of industry in the *boatbuilding* area.

Feedback from assessors, moderators and trainees was considered by the boatbuilding advisory group in the review of the existing standards and during development of new unit standards. Consultation was also undertaken with other Industry Training Organisations operating in the wider Marine industry.

Unit standards 9913 and 9926 had not been reviewed since they were written yet many changes had occurred in the industry.

Main changes resulting from the review

Unit standard 9913 content was adjusted to align the unit standard and resources with the target audience who are people first beginning in the marine industry. This led to a change in level and credits. The title was changed to align with the marine terminology used for other recently registered BITO standards.

A number of small changes to the unit standard were required to address industry changes, to simplify it and make it more relevant. The element covering physical operation of boats at sea was removed as it was not relevant to the candidates and was not in synergy with the rest of the unit standard content. The reference text was also removed in accordance with the removal of the nautical boat operation aspects.

Unit standard 9926 had never been assessed against and no longer met the needs of industry. Therefore unit standard 9926 has been designated expiring. Much of its content is included in new unit standards 26083, 26084, 26085, 26086, 26098 and 26100.

27 new unit standards have been developed.

The unit standard categorised as category D will expire at the end of December 2010.

Impact on existing accreditations

None.

Impact on registered qualifications

Key to type of impact	
Affected	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 Boating Industry Training Organisation qualifications are affected by the outcome of the **review of standard 9913** and will be updated when they are revised or reviewed during 2010.

Ref	Qualification Title
0548	National Certificate in Marine Sales and Services (Marine Retailing) (Level 2)
0550	National Certificate in Marine Sales and Services (Boat Sales and Brokerage) (Level 4)
0877	National Certificate in Boatbuilding (Level 4) with strands in Marine Cabinetmaking, Composite Sparmaking, Alloy Boatbuilding, Marine Rigging, Marine Painting, Composite Boatbuilding, Steel Boatbuilding, Wooden Boatbuilding, Marine Systems Engineering, Metal Sparmaking, Composite Production Trailer Boats, and Alloy Production Trailer Boats
0930	National Certificate in Boatbuilding (Marine Electrical and Electronic Installation) (Level 3)
1472	National Certificate in Marine Sales and Services (Marine Retail and Distribution) (Level 4)
1493	National Certificate in Boatbuilding (Fill and Fair Marine Substrates) (Level 3)

The following table identifies a NZ Motor Industry Training Organisation (Incorporated) qualification that is affected by the **review of unit standard 9913**. The SSB has been advised that the qualification requires revision.

Ref	Qualification Title
1421	National Certificate in Motor Industry (Automotive Electrical and Mechanical Engineering) (Level 3) with strands in Electrical and Electronics, Light Vehicle, Motorcycle, Outdoor Power Equipment, and Trailer Boat Systems

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

Manufacturing > Boating Industries > Marine Sales and Services

ID	Title	Level	Credit	Review Category
9913	Demonstrate knowledge of the New Zealand boating industry Demonstrate knowledge of the New Zealand marine industry	1 2	2 3	B

Manufacturing > Boating Industries > Boatbuilding

ID	Title	Level	Credit	Review Category
9926	Supervise the construction, repair, restoration, and structural alteration of boats	5	25	D
26082	Demonstrate knowledge of and apply sustainability concepts in the marine industry	4	10	New
26083	Analyse requirements, and supervise and lead the laying out, marking and cutting of vessel construction materials	5	10	New
26084	Plan and communicate a work schedule and supervise and lead a team for construction of a boat module	5	10	New
26085	Supervise the use and care of portable power tools in boatbuilding	5	5	New
26086	Verify machine operation, train users and supervise machine operation in boatbuilding	5	10	New
26087	Explain costing and pricing factors and prepare an estimate for a boatbuilding job	5	10	New
26088	Demonstrate knowledge of regulatory compliance in boatbuilding	5	5	New
26089	Explain project control in boatbuilding	5	8	New
26090	Demonstrate knowledge of trim and stability variation on vessels	4	5	New
26091	Monitor and assess marine paint application and finish	4	4	New
26092	Explain cathodic protection for marine vessels	5	6	New
26093	Produce a work schedule and resourcing plan for a composite boat structure	6	7	New
26094	Determine scantlings for a wooden boat	5	10	New
26095	Test properties of boatbuilding timber	5	10	New
26096	Produce a work schedule and resourcing plan for a wooden boat structure	6	7	New
26097	Shut down and isolate hydraulic equipment on a vessel being constructed or maintained	5	3	New
26098	Supervise and survey hull welding to classification society requirements	5	6	New
26099	Produce a work schedule and resourcing plan for a metal boat structure	6	7	New
26100	Determine requirements and supervise the dismantling, inspection, assembly and testing of boat components	5	5	New

ID	Title	Level	Credit	Review Category
26101	Interpret installation requirements and plan a complex plumbing system installation for a vessel	5	10	New
26102	Interpret installation requirements and plan a tankage system installation for a vessel	5	6	New
26103	Interpret installation requirements and plan a hydraulic system installation for a vessel	5	8	New
26104	Interpret installation requirements and plan a refrigeration system installation for a vessel	5	6	New
26105	Determine requirements and plan an air conditioning system installation for a vessel	5	6	New
26106	Interpret installation requirements and plan a custom power plant and power train installation on a vessel	5	6	New
26107	Apply 3D CAD/CAM in boatbuilding	5	5	New
26108	Explain the prevention of fouling and corrosion in saltwater pipework on vessels	5	4	New