

Field Manufacturing**Review of *Boatbuilding* unit standards**

Subfield	Domain	ID
Boating Industries	Boatbuilding	9922, 9923, 9932, 9933, 9944, 9949, 10836, 10841, 12942, 18164, 18165, 23035, 23241

NZ Marine and Composites Industry Training Organisation (NZ MAC ITO) has completed the review of the unit standards listed above.

Date new versions published

January 2017

Planned review date

December 2020

Summary

NZMAC ITO carried out a review to better align these core standards to the graduate outcomes of the New Zealand qualifications in Marine or Composite Industry. The term composite has been included to better reflect the scope of NZMAC ITO, and units have also been updated to reflect the new Health and Safety Legislation. The review was conducted at NZMAC ITO workplace with the boatbuilding technical expert. Consultation with other qualification developers was carried out by email.

Main changes

- Unit standard 9944 and 9949 have increased in credits from 2 to 4, and unit standard 18165 had a reduction in credits from 10 to 8 to better reflect the learning and assessment time.
- Unit standard titles and content have been updated to include reference to the composite industry.
- Explanatory notes have been updated to reflect changes in legislation.
- A last date for assessment of superseded versions of these standards was specified.

The last date for assessment of superseded versions of Category B unit standards is December 2017

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 NZMAC ITO qualifications are impacted by the outcome of this review. These qualifications will not be reviewed as they have been replaced with New Zealand qualifications. The standards that generated the status *Affected* are listed in below.

Ref	Qualification Title	Classification or ID
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	9922, 9923, 9932, 9933, 9944, 9949, 10836, 10841, 12942, 18164, 18165, 23035, 23241
0930	National Certificate in Boatbuilding (Level 3) Marine Electrical and Electronic Installation	18165

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 > Boatbuilding

ID	Title	Level	Credit	Review Category
9922	Produce templates and patterns used in boatbuilding Produce templates or patterns used in marine industry	3	4	B
9923	Install internal and external boat hardware fittings	4	4	B
9932	Install interior boat cabinetry	4	10	B
9933	Install exterior boat joinery, modules and components Install exterior boat joinery, hatches, and components	4	10	B
9944	Identify the characteristics of aluminium alloys relevant to boatbuilding Describe the characteristics of aluminium alloy relevant to boatbuilding	2	2 4	B
9949	Identify the characteristics of steels relevant to boatbuilding Describe the characteristics of steel relevant to boatbuilding	2	2 4	B
10836	Produce scale drawings of boat surfaces from corrected offsets	2	6	B
10841	Produce a half-model of a small craft to scale Produce a half-model to scale	4	10 8	B
12942	Build boat framework under supervision	3	15	B
18164	Demonstrate knowledge of insulation and install insulation in boats	3	2	B

ID	Title	Level	Credit	Review Category
18165	Demonstrate knowledge of computer technology used in the boating industry Demonstrate knowledge of computer technology used in the marine or composite industry	3	6	B
23035	Describe and install boat tankage systems	3	6	B
23241	Loft a boat hull	4	10	B