

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

Subfield	Domain	ID
Boating Industries	Boatbuilding	11787-11790, 18162, 18163, 23041, 23042, 23043, 23046, 23049, 25114

The New Zealand Marine and Composites Industry Training Organisation (NZMAC ITO) has completed the review of the unit standards listed above.

Date new versions published

December 2016

Planned review date

December 2020

Summary

NZMAC ITO carried out a review to better align these unit standards to the graduate outcomes of the New Zealand qualifications relating to the marine and composite industries. The term composite has been included to better reflect the gazetted coverage of NZMAC ITO, and the unit standards have also been updated to reflect the new health and safety legislation.

Main changes

- Credits for unit standards 18162, 23042, 23043, and 25114 have increased from 4 to 5, and in standard 23041 from 3 to 5 to better reflect the learning and assessment time.
- Credits for unit standard 23049 have decreased from 6 to 5 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.

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 classifications and/or standards that generated the status *Affected* are listed in **bold**.

Ref	Qualification Title	Classification or ID
1493	National Certificate in Boatbuilding (Level 3) with strands in Fill and Fair Marine substrates, Interior Marine Painting, and Exterior Marine Painting	11787, 11788, 11789, 11790, 18162, 18163 , 23041 , 23042 , 23043 , 23046 , 23049 , 25114
0121	National Certificate in Composites (Level 4)	11788, 23049
1157	National Certificate in Composites (Level 3)	11788, 23049
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	11787 , 11788, 11789 , 11790 , 18162 , 18163 , 23041 , 23042 , 23046 , 23049 , 25114
0930	National Certificate in Boatbuilding (Level 3) Marine Electrical and Electronic Installation	18162 , 18163

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
11787	Prepare wooden substrates for marine surface coatings	4	5	B
11788	Prepare fibre-reinforced composite substrates for marine surface coatings Prepare fibre-reinforced composite substrates for surface coatings	4	5	B
11789	Prepare steel substrates for marine surface coatings	4	5	B
11790	Prepare aluminium substrates for marine surface coatings	4	5	B
18162	Calculate quantities and costs for boatbuilding projects Calculate quantities and costs for marine or composite projects	3	4 5	B

ID	Title	Level	Credit	Review Category
18163	Demonstrate knowledge of boatbuilding construction drawings and produce related freehand sketches Demonstrate knowledge of marine or composite construction drawings and produce a related freehand sketch	3	2	B
23041	Demonstrate knowledge of abrasives and equipment used in marine painting Demonstrate knowledge of abrasives and resources used in marine or composite painting	3	3 5	B
23042	Demonstrate knowledge of substrate preparation for marine painting	3	4 5	B
23043	Form coves, radiuses and detail on boats using filler	3	4 5	B
23046	Demonstrate knowledge of marine paint systems application Demonstrate knowledge of marine or composite paint system application	3	4	B
23049	Demonstrate knowledge of composite technology for boatbuilding Demonstrate knowledge of composite technology for a marine or composite industry	4	6 5	B
25114	Mask and protect boats for painting Mask and protect marine or composite surfaces for painting	3	4 5	B