

Field Manufacturing

Review of *Composites* unit standards

Subfield	Domain	ID
Composites	Industrial Composites	3190
	Production Composites	3165, 3166, 3170, 3171, 3177, 3186, 3192, 3198

The Hanga-Aro-Rau Manufacturing, Engineering and Logistics Workforce Development Council reviewed the unit standards listed above.

Date new versions published

May 2025

Planned review date

December 2030

Summary

These unit standards were reviewed as part of the review of the New Zealand Certificate in Power Boat Systems Servicing and Repair (Technician) (Level 4) [Ref: 3848], the New Zealand Certificate in Power Boat Rigging (Level 4) [Ref: 3847] and the New Zealand Certificate in Yacht Rig Structures (Level 4) [Ref: 3126]. This review was triggered by the regular 5-year review cycle.

The review process was undertaken between September 2024 and February 2025 and involved MAST academy and industry stakeholder representatives.

Main changes

- Guidance Information was updated to reflect current legislation and assessment information, and definitions were added and updated for clarity.
- The title of unit standard 3192 was updated.
- Standard Setting Body updated to Hanga-Aro-Rau Manufacturing, Engineering and Logistics Workforce Development Council.
- All standards were reviewed for technical accuracy, and minor changes were made to the wording of unit standard 3186.

The last date for assessment of superseded versions of Category B unit standards is December 2027

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 > Composites > Industrial Composites

ID	Title	Level	Credit	Review Category
3190	Repair damaged or faulty composite items	4	5	B

Manufacturing > Composites > Production Composites

ID	Title	Level	Credit	Review Category
3165	Produce a laminated item using resins that cure at elevated temperatures	4	6	B
3166	Produce a composite item using resin pre-impregnated reinforcement	4	5	B
3170	Produce a composite laminate by vacuum bagging	4	2	B
3171	Produce a cored laminate item	3	3	B
3177	Cure an item in an autoclave for composites	4	3	B
3186	Finish composite products to specification	3	5	B
3192	Attach fixings and fastenings to composite products Attach fixing or fastenings to composite products	4	4	B
3198	Blend resin components to alter resin rheology for composites	4	3	B