

Fields Manufacturing and Engineering and Technology

Review of *Boating Industries* unit standards

| Subfield | Domain | ID |
|--------------------|-----------------------|--|
| Motor Industry | Trailer Boat Systems | 23940, 31209 |
| Boating Industries | Boatbuilding | 11781, 11788, 18161, 18165, 18171, 23039, 23245, 23246, 23248, 23250, 23255, 23256, 25118, 25343, 29236, 29237, 30770, 30777, 31212, 31213 |
| Composites | Production Composites | 29234 |

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

Date new versions published

June 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.

Unit standards in this application have been reviewed and updated so that they are in line with current industry practice.

The review process was undertaken between August 2024 and February 2025 and involved a provider 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.
- All standards were reviewed for technical accuracy, and changes were made to the wording of the unit standards to reflect current industry practices and add clarity for assessment.
- Standard Setting Body updated to Hanga-Aro-Rau Workforce Development Council.
- Unit standards were updated to incorporate a shift in terminology from the words trailer boat to power boat to include all on water boats.
- Titles of unit standards were updated to reflect the above change in terminology and also for clarity.

The last date for assessment of superseded versions of Category B unit standards is December 2027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

Engineering and Technology > Motor Industry > Trailer Boat Systems

| ID | Title | Level | Credit | Review Category |
|-----------|---|--------------|---------------|------------------------|
| 23940 | Demonstrate knowledge of trailer boat hydraulic principles, systems and components Demonstrate knowledge of power boat hydraulic principles, systems and components | 4 | 5 | B |
| 31209 | Apply lubricants and sealants in a marine engine system Apply lubricants and sealants for a marine engine system | 2 | 2 | B |

Manufacturing > Boating Industries > Boatbuilding

| ID | Title | Level | Credit | Review Category |
|-----------|--|--------------|---------------|------------------------|
| 11781 | Preserve and evaluate a previously-submerged power plant Preserve and evaluate a previously submerged marine engine | 4 | 3 | B |
| 11788 | Evaluate, clean, and prepare fibre-reinforced composite substrates for surface coatings | 4 | 5 | B |
| 18161 | Perform measurements and calculations used in a marine or composite workplace | 2 | 5 | B |
| 18165 | Demonstrate knowledge of computer technology used in the marine or composite industry | 3 | 6 | B |
| 18171 | Demonstrate knowledge of spars and rigging Explain spars and rigging for boat building | 3 | 4 | B |
| 23039 | Demonstrate knowledge of the transportation of spars and rigging | 3 | 4 | B |
| 23245 | Install deck hatches, windscreens, and screen rails on production trailer boats Install deck hatches, windscreens, and rails on power boats | 3 | 6 | B |
| 23246 | Fix lining and floor coverings on production trailer boats Fix lining and floor coverings on power boats | 3 | 5 | B |
| 23248 | Detail a production trailer boat Detail a power boat | 3 | 3 | B |
| 23250 | Demonstrate knowledge of production trailer boat support and transport requirements Demonstrate knowledge of power boat support and transport requirements | 3 | 5 | B |
| 23255 | Install an outboard motor on a production trailer boat Install an outboard motor on a power boat | 4 | 8 | B |
| 23256 | Demonstrate knowledge of quality control for trailer boat production Demonstrate knowledge of quality control for power boat production | 4 | 5 | B |

| ID | Title | Level | Credit | Review Category |
|-------|--|-------|--------|-----------------|
| 25118 | Demonstrate knowledge of adhesives used in a marine or composites workplace Describe adhesives used in a marine or composites workplace | 3 | 5 | B |
| 25343 | Describe boat fittings and fastenings | 2 | 4 | B |
| 29236 | Operate mechanical plant used in a marine or composite workplace | 4 | 10 | B |
| 29237 | Operate simple mechanical plant or equipment used in the marine or composite industry | 3 | 5 | B |
| 30770 | Dismantle, inspect, assemble and test simple marine system components | 3 | 10 | B |
| 30777 | Produce marine components by performing engineering drilling operations | 3 | 5 | B |
| 31212 | Test and rectify faults in marine engine charging and starting systems | 4 | 5 | B |
| 31213 | Test, diagnose and rectify marine electronic fuel injection (EFI) system Test, diagnose and rectify marine electronic fuel injection (EFI) system faults | 4 | 6 | B |

Manufacturing > Composites > Production Composites

| ID | Title | Level | Credit | Review Category |
|-------|---|-------|--------|-----------------|
| 29234 | Produce resin items to finished product specifications for composites | 3 | 30 | B |