

## Field      Engineering and Technology

### Review of *Trailer Boat Systems* unit standards

Subfield	Domain	ID
Motor Industry	Trailer Boat Systems	15450, 15451, 15454, 15456, 15458, 15461-15463, 15465, 15466, 31201, 31204, 31205, 31208, 31210, 31211, 31199

Hanga-Aro-Rau Manufacturing, Engineering and Logistics the Workforce Development Council has completed the review of 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 August 2024 and February 2025 and involved a provider and industry stakeholder representatives.

Unit standards were reviewed and updated so that they are in line with current industry practice and to ensure they are fit for purpose.

### Main changes

- Guidance Information was updated to reflect current legislation and assessment information, and definitions were added and updated for clarity.
- The titles of unit standards 15450, 15451, 15454, 15458, 15461, 15462, 15463, 15465, 15466, 31201 and 31208 were updated to include new terminologies.
- A shift in terminology across all unit standards from the words *trailer boat* to *power boat* to include all on water boats not just boats that can go onto a trailer.
- Standard Setting Body was changed from New Zealand Marine and Composites Industry Training Organisation to Hanga-Aro-Rau Manufacturing, Engineering and Logistics Workforce Development Council.

**The last date for assessment of superseded versions of Category B unit standards is December 2027**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	
<b>A</b>	Dates changed, but no other changes are made - the new version of the standard carries the same ID and a new version number
<b>B</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
<b>C</b>	Major changes that necessitate the registration of a replacement standard with a new ID
<b>D</b>	Standard will expire and not be replaced

Engineering and Technology > Motor Industry > Trailer Boat Systems

ID	Title	Level	Credit	Review Category
15450	Check and service trailer boat systems <b>Check and service power boat systems</b>	4	10	B
15451	Demonstrate knowledge of rigging requirements of power boats <b>Explain rigging requirements of power boats</b>	3	10	B
15454	Demonstrate knowledge of power boat propeller operation, types, and servicing <b>Explain power boat propeller operation, types, and servicing</b>	3	4	B
15456	Explain stern drive transmission	3	5	B
15458	Demonstrate knowledge of a trailer boat water jet propulsion system <b>Explain water jet propulsion systems</b>	3	5	B
15461	Plan equipment layout and rig a trailer boat <b>Plan equipment layout and rig a power boat</b>	4	15	B
15462	Inspect, test and repair an inboard engine cooling system on a trailer boat <b>Inspect, test and repair an inboard engine cooling system on a power boat</b>	4	5	B
15463	Carry out a sea trial for a trailer boat <b>Carry out an on water trial for a power boat</b>	4	4	B
15465	Check and determine the suitability of a propeller for a trailer boat <b>Check and determine the suitability of a propeller for a power boat</b>	4	5	B
15466	Inspect, test, and repair a trailer boat water jet propulsion system <b>Inspect, test, and repair a water jet propulsion system</b>	4	5	B
31199	Check and rectify manual starting system component faults on a small marine engine	3	2	B
31201	Diagnose and repair faults on four stroke marine engine <b>Diagnose and repair faults on a four stroke marine engine</b>	4	15	B
31204	Explain marine engine management systems	3	4	B
31205	Inspect, diagnose, and repair a two stroke marine engine	4	6	B
31208	Disassemble and rectify faults on a marine engine short block <b>Disassemble and rectify faults on a marine engine long block</b>	4	5	B
31210	Service outboard marine engine	3	4	B
31211	Inspect and test a four stroke petrol marine engine	3	4	B