

Title	Install and remove yacht spars and rigging		
Level	4	Credits	8

Purpose	People credited with this unit standard are able to: prepare for installation or removal of yacht spars and rigging; step rig in vessel; remove rig from vessel; and commission and test a rig installation.
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Classification	Boating Industries > Boatbuilding
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Available grade	Achieved
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Guidance Information

1 Legislation, regulations, references and/or industry standards relevant to this unit standard include but are not limited to the:

- [Health and Safety at Work Act 2015](#);
- [Resource Management Act 1991](#);
- [Code of Practice for Load Lifting Rigging](#);
- [Industrial Rope Access in New Zealand: Best Practice Guidelines](#).

Any new, amended or replacement Acts, regulations, rules, standards, codes of practice, guidelines, or authority requirements or conditions affecting this unit standard will take precedence for assessment purposes, pending review of this unit standard.

2 Definitions

Job specifications refer to the standard requirements of the job being undertaken.

Lifting plan refers to a planned sequence of events so that all parties know what is intended to happen.

Spar refers to a strong pole used on a ship to support sails and rigging. Common types of spars include the mast, yard, boom, and gaff, each serving a specific function in the sail plan of a vessel.

Stepping the rig refers to the installation of the rig and all rigging components.

Workplace policies and procedures refer to the documented procedures and policies providing guidelines for the tasks and activities carried out in the workplace. This typically includes relevant health and safety policies to manage hazards and/or risks in the workplace.

3 Assessment information

Evidence presented for assessment against this unit standard must be in accordance with workplace policies and procedures, job specifications and legislative requirements.

Stepping the rig does not include the connection and commissioning of ancillary control systems such as electronic and hydraulic.

Different rigs may be used for assessment of installation, removal, and testing outcomes.

Competence in the outcomes of this unit standard must be demonstrated on rigs with mast height exceeding 12m and rig including standing rigging weighing more than 100kg.

- 4 It is recommended that people hold credits for Unit 15757, *Use, install and disestablish temporary proprietary height safety systems when working at height*, Unit 23229, *Use safety harness system when working at height*, and Unit 25119, *Describe and safely control work aloft on yacht rigs* or demonstrate equivalent skills and knowledge before being assessed against this unit standard.

Outcomes and performance criteria

Outcome 1

Prepare for installation or removal of yacht spars and rigging.

Performance criteria

- 1.1 Lifting equipment is confirmed as being complete, in working order, and matches the safety requirements of the task.
- 1.2 Rig is prepared.
- Range may include – coiling or uncoiling of standing and running rigging, disconnection of non-critical rigging, removal of assembled components.
- 1.3 Vessel is prepared.
- Range may include – being securely tied up to a wharf in the water and stable, securely supported on land and stable.
- 1.4 Vulnerable systems are protected or removed.
- 1.5 A lifting plan is determined and communicated and coordinated.
- 1.6 Pre-emptive maintenance is carried out.
- Range may include – application of anti-seizing compounds, isolation of dissimilar materials.

Outcome 2

Step rig in vessel.

Performance criteria

- 2.1 Vessel is made ready to receive the mast and rig.
- Range may include – temporary halyard securement, preparation of shroud ends, chainplates, mast step and collar.
- 2.2 Rig is positioned in accordance with lifting plan.
- 2.3 Standing rigging is connected.
- 2.4 Boom and other spars are installed.
- 2.5 Rig is set up.
- Range may include but is not limited – rake, pre bend, rig tension, chocking.
- 2.6 Installation is waterproofed.
- Range may include but is not limited to – mast collar sealing.
- 2.7 Running rigging is checked.

Outcome 3

Remove rig from vessel.

Performance criteria

- 3.1 Rig is secured temporarily.
- 3.2 Vulnerable ancillary items are removed.
- 3.3 Ancillary systems are disconnected.
- 3.4 Standing rigging tension is released and rigging disconnected and supported.
- 3.5 Running rigging is disconnected and coiled.
- 3.6 Mast waterproofing and chocking systems are released.
- 3.7 Rig is removed from vessel.

Outcome 4

Commission and test a rig installation.

Performance criteria

4.1 Test sail is coordinated.

Range may include – inviting appropriate stakeholders such as rig designer, sailmaker, scheduling according to weather.

4.2 Rig is adjusted as required in sailing conditions.

Replacement information	This unit standard, unit standard 25119, unit standard 25121, unit standard 25123, and unit standard 25151 replaced unit standard 9951 and unit standard 9952.
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Planned review date	31 December 2030
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	21 November 2008	31 December 2027
Rollover and Revision	2	25 July 2019	31 December 2027
Review	3	24 July 2025	N/A

Consent and Moderation Requirements (CMR) reference	0136
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

Please contact Hanga-Aro-Rau Engineering, Manufacturing and Logistics Workforce Development Council at qualifications@hangaarorau.nz if you wish to suggest changes to this unit standard.