

<b>Title</b>	<b>Install and remove yacht spars and rigging</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>8</b>

<b>Purpose</b>	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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<b>Classification</b>	Boating Industries > Boatbuilding
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 All required equipment must be set up, started up, operated, and shut down in accordance with company procedures.
- 2 All work practices must meet recognised codes of practice and documented workplace policies and procedures for personal, product, and worksite health and safety, and must meet the obligations required under the Health and Safety at Work Act 2015, Resource Management Act 1991, Code of Practice for Load Lifting Rigging, and Industrial Rope Access in New Zealand: Best Practice Guidelines, and any subsequent amendments.
- 3 Definitions  
*Job specifications* refers to standard requirements of the job being undertaken.  
*Lifting plan* refers to planned sequence of events so that all parties know what is intended to happen.  
*Workplace policies and procedures* refers to the documented procedures and policies providing guidelines of the tasks and activities carried out in the workplace. This typically includes relevant health and safety policies to manage risk in the workplace.
- 4 Stepping the rig does not include the connection and commissioning of ancillary control systems such as electronic and hydraulic.
- 5 Different rigs may be used for assessment of installation, removal, and testing outcomes.
- 6 Competence in the outcomes of this unit standard must to be demonstrated on rigs with mast height exceeding 15m and rig including standing rigging weighing more than 100kg.

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## 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, in accordance with job specifications.
- 1.2 Rig is prepared in accordance with job specifications
- 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 in accordance with job specifications.
- 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 in accordance with job specifications.
- 1.5 A lifting plan is determined and communicated and coordinated in accordance with job specifications.
- 1.6 Pre-emptive maintenance is carried out in accordance with job specifications.
- 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 in accordance with job specifications.
- 2.4 Boom and other spars are installed in accordance with job specifications.

- 2.5 Wiring is connected and tested in accordance with job specifications.
- 2.6 Ancillary items are installed in accordance with job specifications.
- 2.7 Rig is set up in accordance with job specifications.
- Range may include but is not limited – to rake, pre bend, rig tension, chocking.
- 2.8 Installation is waterproofed in accordance with job specifications.
- Range may include but is not limited to – mast collar sealing.
- 2.9 Running rigging is checked in accordance with job specifications.

### **Outcome 3**

Remove rig from vessel.

#### **Performance criteria**

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

### **Outcome 4**

Commission and test a rig installation.

#### **Performance criteria**

- 4.1 Test sail is coordinated in accordance with job specifications.
- 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 in accordance with job specifications.

<b>Replacement information</b>	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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<b>Planned review date</b>	31 December 2024
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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	N/A
Rollover and Revision	2	25 July 2019	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	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 the NZ Marine and Composites ITO [training@nzmarine.com](mailto:training@nzmarine.com) if you wish to suggest changes to the content of this unit standard.