

Title	Demonstrate knowledge of spars and rigging		
Level	3	Credits	4

Purpose	People credited with this unit standard are able to: describe spars and rigging; explain the principles and dynamics of spars and rigging; explain the materials used for spars and rigging; and explain maintenance procedures of spars and rigging.
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Classification	Boating Industries > Boatbuilding
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Available grade	Achieved
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Guidance Information

None.

Outcomes and performance criteria

Outcome 1

Describe spars and rigging.

Performance criteria

- 1.1 Types of spars and rigging are described in terms of configuration.
- 1.2 Spar and rigging components are described in terms of functions and locations.
 Range components include – booms, struts, forestays, backstays, baby stays, shrouds, fenders, leads, steps.
- 1.3 Sail adjustment controls are described in terms of functions and locations.

Outcome 2

Explain the principles and dynamics of spars and rigging.

Performance criteria

- 2.1 Principles and dynamics of spars and rigging are explained in terms of type.
 Range types – spar types, current rig form types.
- 2.2 Principles of operation of spars and rigging are explained in terms of sailing loads in different conditions and aspects.

Outcome 3

Explain the materials used for spars and rigging.

Performance criteria

3.1 Materials used for spars are explained by type.

Range materials – wood, alloy, composite.

3.2 Materials used for rigging are explained by type.

Range materials – rope, wire, rod, chain, lines, composite fibres, titanium, stainless steel.

Outcome 4

Explain maintenance procedures of spars and rigging.

Performance criteria

4.1 Maintenance procedures of spars and rigging are explained in terms of consequences of failure.

Planned review date	31 December 2023
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	28 March 2001	31 December 2020
Revision	2	11 February 2005	31 December 2020
Rollover	3	20 March 2009	31 December 2020
Review	4	27 September 2018	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 the NZ Marine and Composites ITO training@nzmarine.com if you wish to suggest changes to the content of this unit standard.