

Title	Describe marine rope work		
Level	4	Credits	5

Purpose	People credited with this unit standard are able to describe: construction types and materials used in the manufacture of rope, joining and finishing techniques of rope work and maintenance and storage requirements of ropes, in the marine industry.
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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](#).

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

Manufacturers' specifications refer to technical documentation provided for marine components that detail: proper installation methods; fabrication standards; material requirements; operational parameters; maintenance procedures; technical terminology; and relevant illustrations. Manufacturers' specifications must be followed in all instances to ensure compliance with manufacturer warranty, safe operation, and operation that meets manufacturer performance claims.

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 manufacturers' specifications, workplace policies and procedures and relevant legislation.

Outcomes and performance criteria

Outcome 1

Describe construction types and materials used in the manufacture of ropes in the marine industry.

Performance criteria

1.1 Properties of rope construction types are described in terms of their application.

Range rope construction types include – braid, twine, laid, multi-plat, shock cord, covered, uncovered;
properties may include – strength, stretch, durability, flexibility, elasticity, abrasion resistance, joining attributes.

1.2 Properties of rope material are described in terms of their application.

Range rope material include – polypropylene, polyamide, polyester, polyethylene, aramids, nylon, latex rubber, hemp;
properties may include – strength, stretch, durability, flexibility, elasticity, abrasion resistance, joining attributes.

Outcome 2

Describe joining and finishing techniques of rope work in the marine industry.

Performance criteria

2.1 Joining techniques are described in terms of their application.

Range splicing include – eye, line to line, rope to wire, rope to chain, tapering, terminating;
knots include – bowline, alpine butterfly, clove hitch, prusik hitch, figure of eight, figure of eight looped, rolling hitch, round turn and two half hitches, sheet bend.

2.2 Finishing techniques are described in terms of the application.

Range application include – tapering, whipping, terminating.

Outcome 3

Describe maintenance and storage requirements of ropes used in the marine industry.

Performance criteria

3.1 Maintenance of ropes is described.

Range maintenance includes – chafe protection, use of covers, high movement wear areas, salt buildup causing abrasion, load areas, UV breakdown.

3.2 Appropriate storage of ropes is described.

Range storage includes – moisture, UV protection, neatness, labelling, ventilation.

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	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.