

<b>Title</b>	<b>Demonstrate knowledge of marine clear finish systems and application</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>8</b>

<b>Purpose</b>	People credited with this unit standard are able to: describe marine clear finish systems; describe marine clear finish system preparation; describe mixing and application methods for marine clear finish systems; and explain marine clear finish remedial actions required for issues.
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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

- Marine clear finish formulations and application techniques differ from domestic and industrial applications. Marine specific factors to be considered include: exposure to sunlight; salt water conditions, retention of moisture; high traffic and wear on surfaces because of the confined spaces in boats; common requirement for very finely finished components; difficult application environments; clear finished timbers are commonly of highest available grade, must be durable because of the marine environment, and often contain oil or are very dense. These factors require unique application techniques to meet practical, aesthetic, and technical standards.
- Definitions  
*Clear finish system* refers to an application of different layers of clear finishes and other materials to wooden surface in specific sequence to achieve a good quality product.  
*Work 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 requirements to manage risk in the workplace.

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### Outcomes and performance criteria

#### Outcome 1

Describe marine clear finish systems.

#### Performance criteria

- Marine clear finishes and their uses are described.

Range evidence of five marine clear finish systems is required.

- 1.2 Marine clear finish gloss levels are described in relation to their use and durability.

## Outcome 2

Describe marine clear finish system preparation.

Range preparation may include – degreasing, sanding, film builds, cleaning, grain filling, drying.

### Performance criteria

- 2.1 Preparation of bare and pre-coated timbers is described in relation to clear finish systems.

Range evidence of three different bare timbers is required;  
evidence of three different pre-coated timbers is required.

## Outcome 3

Describe mixing and application methods for marine clear finish systems.

### Performance criteria

- 3.1 Mix ratio of marine clear finish systems is described in accordance with workplace policies and procedures.

Range evidence of two different systems is required.

- 3.2 Application methods for marine clear finishes are described in terms of the required finish.

Range spraying, brushing.

- 3.3 Storage requirements for marine clear finishes are explained in terms of safety and shelf life.

## Outcome 4

Explain marine clear finish remedial actions required for issues.

### Performance criteria

- 4.1 Clear finish issues and remedies are explained in accordance with workplace policies and procedures.

Range issues may include – orange peel, cracking, contamination, water damage, air entrapment, improper mix ratio, improper mixing, substrate preparation.

<b>Planned review date</b>	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	14 December 2007	31 December 2020
Rollover and Revision	2	26 July 2018	31 December 2020
Review	3	1 November 2018	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.