

Title	Demonstrate knowledge of marine paint systems		
Level	3	Credits	5

Purpose	People credited with this unit standard will be able to: describe marine paint systems and components; describe marine finish types; and explain common resin technologies used in marine paint systems.
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Classification	Boating Industries > Boatbuilding
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Available grade	Achieved
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Guidance Information

- 1 All work practices must meet recognised codes of practice and documented worksite health and safety procedures (where these exceed code) for personal, product, and workplace health and safety, and must meet the obligations required under the Health and Safety at Work Act 2015 and Resource Management Act 1991, and any subsequent amendments.
- 2 Definitions
Job specifications refer to the standard requirements of the job being undertaken.
Workplace policies and procedures refer 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.

Outcomes and performance criteria

Outcome 1

Describe marine paint systems and components.

Performance criteria

- 1.1 Types of marine paint are described in terms of functions in paint systems.

Range types of marine paint – primers, undercoats, topcoats.

- 1.2 Marine paint components are described in terms of purpose and functions.

Range components – pigmenting and filling extenders, binders, solvents, thinners.

Outcome 2

Describe marine finish types.

Performance criteria

- 2.1 Finish measurement methods are described in terms of depth of image, gloss level, orange peel, and job specifications.
- 2.2 Finish blemishes and defects are described according to workplace policies and procedures.

Range includes but is not limited to – fairness, sanding marks, contamination, orange peel.

Outcome 3

Explain common resin technologies used in marine paint systems.

Performance criteria

- 3.1 The common resin technologies are explained in terms of marine applications and service performance.

Range resin technologies include but are not limited to – alkyd, polyurethane, acrylic, vinyl/chlorinated rubber, epoxy; service performance – curing, water resistance, chemical resistance, durability, firm hardness or sand-ability, speed of cure, film builds.

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	14 December 2007	31 December 2020
Review	2	30 August 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.