

Title	Demonstrate knowledge of marine or composite paint system application		
Level	3	Credits	4

Purpose	People credited with this unit standard are able to: describe paint specifications; interpret paint system data sheets; describe paint system application records; explain paint system measuring methods; describe paint system pre-application processes; describe application methods and ventilation requirements for application of marine or composite paint.
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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 worksite health and safety, and must meet the obligations required under the Health and Safety at Work Act 2015, Hazardous Substances and New Organism Amendment Act 2015, and Resource Management Act 1991, and any subsequent amendments.
- 2 Suggested reference
Approved Code of Practice for the Safe Use of Isocyanates, available at <http://www.worksafe.govt.nz/worksafe/information-guidance/all-guidance-items/acop-isocyanates/isocyanates-acop-pdf>

Outcomes and performance criteria

Outcome 1

Describe paint specifications in a marine or composite industry.

Performance criteria

- 1.1 Paint specifications are described in the context of finished paint system performance.

Range purpose, warranty conditions, legal or contractual conditions.

Outcome 2

Interpret paint system data sheets in a marine or composite industry.

Performance criteria

- 2.1 Paint system data sheets are interpreted in terms of their purpose.
- Range intended use, spread rates, drying, over-coating, re-coating, thinners, cleaners, application method, equipment, spray gear type, tip size, pressure.
- 2.2 Paint system data sheets are interpreted in terms of film build coverage rates.
- Range wet, dry.
- 2.3 Paint system data sheets are interpreted in terms of humidity and temperature limitations of application.

Outcome 3

Describe paint system application records in a marine or composite industry.

Performance criteria

- 3.1 Paint system application records are described in terms of their purpose.
- Range quality assurance, service performance, measurements.

Outcome 4

Explain paint system measuring methods in a marine or composite industry.

Performance criteria

- 4.1 Film build measurement methods are explained in terms of apparatus use.
- Range wet paint, dry paint.
- 4.2 Surface measurement methods are explained in terms of apparatus use.
- Range temperature, profile.
- 4.3 Humidity measurement is explained in terms of apparatus use and interpretation of the data.
- 4.4 Cure measurement is explained in terms of testing methods.

Outcome 5

Describe marine or composite paint system pre-application processes.

Performance criteria

5.1 Pre-application processes are described in terms their purpose in a marine or composite paint system.

Range storage, mixing, thinning, induction, straining.

Outcome 6

Describe application methods for marine or composite paint.

Performance criteria

6.1 Paint application methods are described in terms of application advantages and disadvantages, and paint system performance.

Range brush, roller, conventional air, airless spray.

Outcome 7

Describe ventilation requirements for application of marine or composite paint.

Performance criteria

7.1 Reason for specific workplace ventilation arrangements are described in terms of solvent fume behaviour and effect.

7.2 Ventilation apparatus is described in terms of placement and arrangement to effectively remove fumes.

Range air fed masks, forced ventilation.

Planned review date	31 December 2027
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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 2017
Review	2	8 December 2016	31 December 2024
Review	3	25 August 2022	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 Manufacturing, Engineering and Logistics Workforce Development Council qualifications@hangaarorau.nz if you wish to suggest changes to the content of this unit standard.