

Title	Demonstrate and apply knowledge of sustainability practices in a marine or composite industry		
Level	4	Credits	5

Purpose	People credited with this unit standard are able to: demonstrate knowledge of energy consumption in a marine or composite process; explain environmental considerations for sustainability; and apply sustainability work practices in the marine or composite industry.
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Classification	Boating Industries > Boatbuilding
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Available grade	Achieved
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Guidance Information

- 1 Learners undertaking assessment against this unit standard must comply with the –
 - Health and Safety at Work Act 2015;
 - Health and Safety in Employment Regulations 1995;
 - Resource Management Act 1991;
 - Hazardous Substances and New Organisms Act 1996; and
 - any other subsequent amendments.

- 2 References

Biosecurity New Zealand – <https://www.biosecurity.govt.nz/biosecuritynz>

Environmental Protection Authority – <https://www.epa.govt.nz/>

The International Council of Marine Industry Associations (ICOMIA) <http://www.icomia.com/> website has extensive information about environmental issues that are applicable to marine industries worldwide.

New Zealand Clean Boating Programme – <http://www.cleanboating.org.nz/>

Sustainable Business Council, *Business Guide to Energy Efficiency*, available at <http://www.sbc.org.nz>.

- 3 Definition

Recognised standards – regulations that are legally in force or widely recognised. Due to the rate of change in this area the actual recognised standards have not been specifically noted.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of energy consumption in a marine or composite work process.

Performance criteria

- 1.1 Areas of energy consumption are explained in terms of the type of energy used and consumption for a process.
- Range evidence required for one process.
- 1.2 Energy use reduction strategies for a process are explained in accordance with recognised standards.
- Range evidence of three strategies is required.
- 1.3 Energy use reduction strategies in the workplace are explained in accordance with recognised standards.
- Range evidence of three strategies is required.

Outcome 2

Explain environmental considerations for sustainability in the marine or composite industry.

Performance criteria

- 2.1 Impacts of non-renewable resource use are explained in construction or operation contexts.
- Range evidence of at least two impacts is required.
- 2.2 Strategies or techniques to reduce environmental damage during manufacturing processes are explained in accordance with recognised standards.
- Range evidence of three strategies is required.
- 2.3 Sources of carbon and volatile organic compound emissions during manufacturing are identified and explained.

Outcome 3

Apply sustainability work practices in the marine or composite industry.

Performance criteria

- 3.1 Construction material and processing practices are carried out in accordance with recognised standards.
- Range evidence is required for two different sustainable practices.
- 3.2 Workplace waste and disposal practices are carried out in accordance with recognised standards for the relevant products.

Replacement information	This unit standard replaced unit standard 26082
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Planned review date	31 December 2024
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	15 October 2015	31 December 2021
Review	2	28 November 2019	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.