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| Title | Demonstrate knowledge of, and install a production trailer boat fuel system | | |
| Level | 4 | Credits | 5 |

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| Purpose | People credited with this unit standard are able to: demonstrate knowledge of a production trailer boat fuel system; install a fuel tank; install pipework, fillers and breathers; and, connect and test a fuel system. |
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| Classification | Boating Industries > Boatbuilding |
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| Available grade | Achieved |
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Guidance Information

- 1 All required equipment must be set up, started up, operated, and shutdown in accordance with workplace policies and procedures.
- 2 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 and Resource Management Act 1991, and any subsequent amendments.
- 3 This unit standard applies to composite or alloy trailer boats.
- 4 Definitions
Job specifications refers to standard requirements of the job being undertaken.
Workplace 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 eliminate hazard/risk in the workplace.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of a production trailer boat fuel system.

Performance criteria

- 1.1 Components of a trailer boat fuel system are explained in terms of purpose and function.

- 1.2 Possible locations and sizes for fillers and breathers are explained in accordance with operational considerations and workplace policies and procedures.
- 1.3 Fuel tank is described in terms of materials used, volume, capacity, and weight.
- 1.4 The function and arrangement of tank baffles, filler, and breather tubes are explained in accordance with workplace policies and procedures.

Outcome 2

Install a fuel tank.

Performance criteria

- 2.1 Installation requirements of the fuel tank are checked and confirmed in accordance with job specifications.

Range visual inspection, testing, pre-installation of sensors and fittings, fuel tank foundations and mounts, positioning, clearances.
- 2.2 Fuel tank is installed in accordance with job specifications and workplace policies and procedures.

Outcome 3

Install pipework, fillers, and breathers.

Performance criteria

- 3.1 Pipework is installed in accordance with workplace policies and procedures.

Range pipework includes hoses.
- 3.2 Fillers and breathers are located and installed in accordance with job specifications and workplace policies and procedures.

Outcome 4

Connect and test a fuel system.

Performance criteria

- 4.1 Pipework is connected to fuel tank in accordance with workplace policies and procedures.
- 4.2 Fuel sensor is connected in accordance with workplace policies and procedures.
- 4.3 Installed fuel system is checked and tested, and any remedial action is taken to ensure job specifications are met.

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| Planned review date | 31 December 2022 |
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Status information and last date for assessment for superseded versions

| Process | Version | Date | Last Date for Assessment |
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| Registration | 1 | 27 October 2006 | 31 December 2019 |
| Review | 2 | 23 November 2017 | N/A |

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| 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 Industry Training Organisation training@nzmarine.com if you wish to suggest changes to the content of this unit standard.