

<b>Title</b>	<b>Dismantle, check, and rectify cylinder head of a marine engine</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>4</b>

<b>Purpose</b>	People credited with this unit standard are able to: dismantle and check cylinder head; and rectify cylinder head faults of a marine engine.
----------------	--

<b>Classification</b>	Boating Industries > Boatbuilding
-----------------------	-----------------------------------

<b>Available grade</b>	Achieved
------------------------	----------

---

## Guidance Information

- 1 Definitions
 

*Service information* refers to technical information of a boat or product detailing: operation; installation and servicing procedures; manufacturer instructions and specifications; technical terms and description; or illustrations.

*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.
- 2 All work practices must meet recognised codes of practice and workplace policies and 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.
- 3 Range
 

petrol or diesel; two stroke or four stroke.
- 4 Assessment of this unit standard does not include rectifying faults in an engine that requires machining skills.

---

## Outcomes and performance criteria

### Outcome 1

Dismantle and check cylinder head of a marine engine.

### Performance criteria

- 1.1 Visual inspection of the cylinder head of a marine engine is carried out prior to disassembly in accordance with service information.

- 1.2 Cylinder head is dismantled in accordance with service information.
- 1.3 Components are check for damage and any signs of leakage in accordance with service information.
- Range camshaft, rockers, valves, rocker shaft, hydraulic lifters.
- 1.4 Studs and threaded holes are checked and cleaned, and action is taken if required to meet service information.
- 1.5 Reports are made is accordance with workplace policies and procedures.

## Outcome 2

Rectify cylinder head faults of a marine engine.

### Performance criteria

- 2.1 Faults on cylinder head components are rectified in accordance with service information.
- 2.2 Core plugs are checked for signs of leakage, and action is taken if required to meet service information.
- Range action – remove, replace.
- 2.3 Components of cylinder head are re-assembled in accordance with service information.
- 2.4 Reassembled cylinder head is checked and test run, and remedial action is taken if required to ensure service information are met.

<b>Planned review date</b>	31 December 2023
----------------------------	------------------

### Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	26 July 2018	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0136
--	------

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](mailto:training@nzmarine.com) if you wish to suggest changes to the content of this unit standard.