Title	Interpret installation requirements and plan a hydraulic system installation for a vessel		
Level	5	Credits	8

Purpose	People credited with this unit standard are able to interpret installation requirements for a hydraulic system on a vessel, and plan a hydraulic system installation on a vessel.
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Classification Boating Industries > Boatbuilding	
Available grade	Achieved

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 and Resource Management Act 1991, and any subsequent amendments.
- 2 Assessment against this unit standard may be demonstrated by leading and supervising an actual installation or for a simulated situation using a set of plans as a basis for planning.
- Definitions
 Hydraulic system refers to fixed pipe and flexible hose.
 Job specifications refer to the standard requirements of the job being undertaken.

Outcomes and performance criteria

Outcome 1

Interpret installation requirements for a hydraulic system on a vessel.

Performance criteria

- 1.1 Location of primary components is determined and verified in accordance with boat plans and specifications.
- 1.2 Installation criteria for components are determined in accordance with manufacturer's specifications and vessel plans and specifications.

Range may include – insulation.

- 1.3 Noise, vibration and isolation minimisation requirements and solutions are determined in accordance with the vessel contract specifications.
- 1.4 Piping and hose requirements are established in terms of type and in accordance with space availability.
- 1.5 Corrosion protection requirements are determined in accordance with component material types and layout.

Outcome 2

Plan a hydraulic system installation on a vessel.

Performance criteria

2.1	Components are sourced in accordance with system requirements.		
	Range	custom made, vendor sourced.	
2.2	Component warranty conditions are checked for compliance with job specifications.		
2.3	Installation is planned in terms of order and stages of work.		
	Range	main component mounting, pipework/hose runs, connection, commissioning, documentation.	
2.4	Installation planning is communicated and consulted with different trades and contributors.		
	Range	trades and contributors may include – boatbuilders, pipework installers, electrical installers, design engineers.	
2.5	Installation is planned to avoid potential conflict with other systems.		
	Range	may include but is not limited to – plumbing, electrical, fuel.	
2.6	Planned installation is complied with relevant rules.		
	Range	relevant rules may include but are not limited to – class society	

Range relevant rules may include but are not limited to – class society rules, maritime rules, company rules, designer specifications.

Planned	review	date
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31 December 2026

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	21 May 2010	31 December 2023
Rollover and Revision	2	30 August 2018	31 December 2023
Review	3	26 August 2021	N/A

Consent and Moderation Requirements (CMR) reference	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 ITO <u>training@nzmarine.com</u> if you wish to suggest changes to the content of this unit standard.