Title	**Develop a project management plan for a vessel technology project**		
Level	**5**	**Credits**	**20**

Purpose	People credited with this unit standard are able to: explain the project life cycle for managing a vessel technology project; and develop a project management plan for a vessel technology project.

Classification	Boating Industries > Boatbuilding

Available grade	Achieved

Guidance Information

1 Legislation, regulations and/or industry standards relevant to this unit standard include but are not limited to the:

- Health and Safety at Work Act 2015
- Civil Aviation Authority (CAA)
- Maritime Rules and Regulations
- Conformité Européene (CE)
- Det Norske Veritas
- American Bureau shipping
- Lloyds Register of Shipping
- Civil Aviation Authority (CAA).

Any new, amended or replacement Acts, regulations, standards, codes of practice, guidelines, or authority requirements or conditions affecting this unit standard will take precedence for assessment purposes, pending review of this unit standard.

2 Definitions

Approvals refer to carrying out actions, approval from project managers, and delegated authority to proceed.

Hold points refer to a mandatory verification point beyond which work cannot proceed without approval of project manager. Sign off or inspection of a system or structure maybe required at the hold point before further work is progressed.

Risk refers to commercial, timelines (launch dates) health and safety, compliance, stakeholder requirements, environmental, sustainability, financial as well commercial, resources (people and technology risks).

Stakeholder refers to an organisation or an individual. This may include the owner, client, sub-contractors, project manager, technicians and designers.

Vessel technology refers to the development, and manufacturing of various types of vessels including boats, ships, and rockets for marine, maritime, aeronautical, composites or specialised technology industries.

3 Assessment information
International requirements*:* where appropriate, international requirements for marine vessels must be noted and included in plan requirements.

4 *All Project Management* terms used in this standard can be found and defined at: www.pmi.org.

Outcomes and performance criteria

Outcome 1

Explain the project life cycle for managing a vessel technology project.

Range must include – hold points, initiation, planning, execution, monitoring or controlling, and closure (sign-off).

Performance criteria

1.1 The project life cycle for managing a vessel technology project is explained.

Range estimating, tendering, bid or no bid, tender or bid handover, planning works, form of contract, scope of work, sub-contracting partners or in-house team, build the team (external and or internal as required), develop a strategy, challenges, project start up, deliverables, reviews, sign off process, retention process and warranties.

1.2 Project management methodologies are explained and the most appropriate methodology for the project under consideration is selected.

Range may include but are not limited to – Critical Path Method (CPM) Critical Chain Method (CCM), competitive systems and practices (lean), six sigma method, agile.

Outcome 2

Develop a project management plan for a vessel technology project.

Range must include – a Gantt chart, critical path, and hold points.

Performance criteria

2.1 All knowledge areas relevant to the project are included in the plan and checked against drawings and specifications.

Range scope, schedule, cost, communications, risk, stakeholders, internal and external teams, quality;
may include human resources (HR), procurement.

2.2 Project plan approval is obtained from project stakeholders and documented.

2.3 Project management tools and techniques are selected and used to contribute to the project planning process.

2.4 Programme or schedule of works required for the contract is checked against design concepts, drawings, specifications, scope of works, and stakeholder needs.

Range includes – inspections as hold points or milestones if required.

2.5 Procedures for setting up reporting and completion of documents in relation to own role are completed.

2.6 Procedures for variations to the contract are determined, agreed, recorded, and reported to relevant personnel.

2.7 Procedures for monitoring the contract requirements and approvals are determined and documented.

Range includes but is not limited to – quality, productivity, risk, environmental impacts, financials, subcontractor performance, monitoring programme of works.

2.8 Contract review procedures are documented and completed, and communicated to relevant stakeholders in accordance with own role.

Range includes but is not limited to – stakeholder satisfaction, budget performance, productivity, risk, environmental impacts solutions and/or sustainability of product, learnings over the duration of the contract.

2.9 Procedures for closing out the contract are completed.

Range includes but is not limited to – manuals, stakeholder satisfaction, project deliverables are reviewed, handover, and retention and warranty requirements.

2.10 Negotiation skills and positive influence are used to contribute to the planning and outcomes of the project.

Planned review date	31 December 2030

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	26 June 2025	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 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.