

**Qualification Title:** New Zealand Diploma in Marine Engineering (Level 6)

**Qualification number:** 2514

**Date of review:** 12 April 2021

This report refers to graduates awarded this qualification prior to: **31 December 2020**

**Final decision on consistency of the qualification: National consistency is confirmed**

**Threshold:**

The threshold to determine sufficiency with the graduate profile was determined as evidence of graduates being able to:

- Manage the safety of an engineering watch.
- Apply leadership, teamwork and communication skills to the management of an engineering watch.
- Manage the operation of electrical and electronic control systems.
- Maintain electrical and electronic control systems.
- Manage the operation of the main propulsion machinery and auxiliary systems.
- Manage the operation of fuel, lubrication, ballast pumping and associated control systems.
- Monitor vessel stability and structural seaworthiness.
- Manage the maintenance and repair of shipboard machinery and equipment.
- Ensure compliance with marine pollution prevention requirements.
- Lead safe and sustainable working practices, effective communication and emergency response on board a vessel.
- Direct firefighting operations on board a vessel.
- Operate survival craft and rescue boats.
- Maintain vessel security and provide on board medical care.

**Education Organisations with sufficient evidence**

The following education organisations have been found to have sufficient evidence.

MOE Number	Education Organisation	Final rating
6011	Nelson Marlborough Institute of Technology Ltd	Sufficient
6010	Manukau Institute of Technology Ltd - NZ Maritime School	Sufficient

**Introduction**

The purpose of this qualification is to provide the maritime industry with people who have the skills and knowledge required to operate and maintain engine room and auxiliary equipment

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to Marine Engineer Class 3 (MEC3) or Class 4 (MEC4) standards under the Maritime New Zealand Seafarer Certification and Operational Limits Framework. The qualification is for marine engineers intending to progress to more senior roles or move to larger vessels but is also open to new entrants to the industry. Completion of this qualification is a pre-requisite to applying for a Maritime New Zealand Marine Engineer Class 3 (MEC3) or Class 4 (MEC4) Certificate.

The qualification was developed by Competenz in consultation with Maritime New Zealand (MNZ), industry stakeholders and educational providers in 2015. A qualification review was conducted in 2020, with version 2 of the qualification being listed. It was noted at the consistency review that there was very little change as a result of the review as the maritime regulations to which this qualification aligns have not changed.

This consistency review relates to graduates of the first version of the qualification. Two tertiary education organisations have accreditation to deliver programmes that lead to the award of this qualification. Collectively the two organisations had 123 graduates during the reporting range for this consistency event.

The consistency review was held via Zoom with education organisation representatives and Competenz, the qualification developer. A senior advisor from MNZ joined as an observer.

### Evidence

The education organisations provided a range of evidence relating to the programmes, feedback from graduates and destination information, to demonstrate that their graduates met the graduate profile outcomes.

The criteria used to judge the evaluation question were:

- The nature, quality and integrity of the evidence presented by the education organisation
- How well the organisation has analysed, interpreted and validated the evidence, and used the understanding gained to achieve actual or improved consistency
- The extent to which the education organisation can reasonably justify and validate claims and statements relating to the consistency of graduate outcomes, including in relation to other providers of programmes leading to the qualification.

### **How well does the self-assessment and supporting evidence provided by the education organisation demonstrate that its graduates match the graduate outcomes at the appropriate threshold?**

The education organisations provided good evidence related to their approved programmes of study, showing how the course learning outcomes and assessment activities were mapped against the qualification graduate profile outcomes.

Evidence of internal and external moderation processes and results provided assurance the programmes were assessed at an appropriate level. Reporting on the results of the MNZ examination, conducted by independent examiners after graduation was also considered reliable evidence that provided confidence that graduates had achieved the qualification outcomes.

Graduate and employer survey results and feedback generally confirmed that graduates had gained and were using the skills and knowledge outlined in the graduate profile. After

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graduation, most of the graduates responding to the survey, were in relevant work and some of them were pursuing further training programmes in the same field.

The evidence was generally well analysed, interpreted and triangulated, and areas for improvement and related actions were identified.

Overall, the self-assessment and supporting evidence supplied, by the organisations, demonstrates that their graduates meet the graduate outcomes at the determined threshold.

### **Recommendations to Qualification Developer**

None