

**Qualification Title:** New Zealand Certificate in Heavy Automotive Engineering (Level 4) with strands in Road Transport, Plant and Equipment, Agricultural Equipment, and Materials Handling

**Qualification number:** 3118

**Date of review:** 29 November 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 will be able to:

- Monitor the workplace and respond to issues as required to maintain a safe and effective workplace;
- Apply the appropriate precautionary measures when servicing and repairing high risk heavy automotive systems.

Road Transport strand are also able to:

- Diagnose and repair trucks, buses, heavy trailers and combination units.

Plant and Equipment strand are also able to:

- Diagnose and repair construction, off-road, and earth moving equipment.

Agricultural Equipment strand are also able to:

- Diagnose and repair tractors, land maintenance and cultivation implements, and harvesting equipment.

Materials Handling strand are also able to:

- Diagnose and repair all electric and non-electric forklifts and other fuel or electric powered equipment designed for the movement of goods.

**Education Organisations with sufficient evidence**

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

MOE Number	Education Organisation	Final rating
6044	Te Pūkenga Work Based Learning Limited (MITO)	Sufficient
6025	Toi Ohomai Institute of Technology Limited	Sufficient
6013	Otago Polytechnic Limited	Sufficient

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### Introduction

The purpose of this Level 4 qualification is to provide the heavy automotive engineering industry with individuals who have attained the knowledge and skills to safely and effectively service and repair vehicles in road transport, plant and equipment, agricultural equipment or materials handling contexts.

This qualification is designed for people working in the industry and will typically be achieved in a workplace environment. Graduates will have the skills and knowledge to work in a range of heavy automotive engineering workplaces in positions that involve service and repair, and they would be expected to take some responsibility for the work of others.

Achievement of the New Zealand Certificate in Automotive Engineering (Level 3) [Ref: 3097], or equivalent skills and knowledge, is a pre-requisite for this qualification. Graduates may progress to the New Zealand Certificate in Heavy Automotive Engineering (Level 5) [Ref: 3119].

The qualification was developed in 2015 (version 1) by MITO Ltd in conjunction with industry and education organisations. A review of this qualification is currently underway, along with other qualifications in the automotive suite of qualifications.

There were three education organisations with a total of 211 graduates from their programme of industry training, and programmes of study over the reporting period.

The consistency review was held virtually (via zoom) and was attended by 2 of the education organisations, the qualification developer from Hanga-Aro-Rau, the recently established Workforce Development Council for the manufacturing, engineering and logistics sectors, and several observers. Two of the education organisation's submission were evaluated via a desktop review, as they had fewer than 5 graduates.

### Evidence

The education organisations provided a range of evidence 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, and
- 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.

The evidence included:

- Confirmation that each education organisation had a coherent programme of industry training or programme of study which ensured that programme components led to the graduate profile.
- Programmes were work-based with apprentices developing and demonstrating their competencies in their workplace, supervised by skilled

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practitioners/registered assessors, and supported by the education organisations.

- Internal and external moderation evidence that assured the programme was assessed at an appropriate level, and assessment was valid.
- Feedback from graduates and employers, confirming that the programme had provided graduates with a range of skills aligned to the graduate profile and appropriate to the strand of the qualification.
- Destination data – both employment and education.

### **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?**

Education organisations submitted a range of evidence that could be triangulated to demonstrate that their graduates match the graduate outcomes at the appropriate threshold.

The education organisations provided good evidence related to their approved programmes of study or industry training and how the module or unit standard learning outcomes were mapped against the qualification graduate profile outcomes (including the strand outcomes), and of the quality and suitability of assessments. All learners were employed during their training in an appropriate automotive engineering workshop and were able to demonstrate their competencies in the workplace.

Assessments were conducted by suitably skilled assessors. Evidence relating to moderation was strong, demonstrating good internal and external moderation processes and positive results. This was persuasive evidence of strong assessment practices supporting graduates' consistency with graduate outcomes.

Graduate and employer survey results and feedback provided by two of the organisations confirmed that graduates had gained and were using the skills and knowledge outlined in the graduate profile.

Destination data was strong, and showed that graduates were continuing to work with the employer they trained with in roles that required the application of skills and knowledge of the graduate profile, and/or had taken up opportunities with more responsibility. Some graduates had received pay rises upon completion of their qualification, and some had continued their learning journeys, either at a higher level, or in a related field.

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

### **Special Focus** (includes special focus on a strand or outcome)

None.

### **Issues and concerns**

Refer to recommendations to the Qualification Developer.

### **Recommendations to Qualification Developer**

As discussed at the Consistency Review the graduate profile outcomes for the strands that require graduates to be able to '*service and repair*' the relevant machinery and or vehicles do not adequately reflect the real world evidence of what the graduates can do, be and know, nor

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the current industry practice and expectations. The threshold was agreed and indicates graduates 'diagnose and repair' the relevant machinery and or vehicles.

It is recommended that amendments to the graduate outcomes are considered during the current review process.

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