

## QUALIFICATION DETAILS

<b>Qualification number/ Te nama o te tohu mātauranga</b>			
<b>English title/ Taitara Ingarihi</b>	New Zealand Diploma in Cardiac Physiological Measurement (Level 6)		
<b>Māori title/ Taitara Māori</b>			
<b>Version number/ Te putanga</b>	1	<b>Qualification type/Te momo tohu</b>	Diploma
<b>Level/ Te kaupae</b>	6	<b>Credits/Ngā whiwhinga</b>	150
<b>NZSCED/ Whakaraupapa</b>			
<b>Qualification developer/Te kaihanganga tohu</b>	Toitū te Waiora – Community, Health, Education, and Social Services Workforce Development Council		
<b>Review Date/ Te rā arotake</b>	31 December 2029		

## OUTCOME STATEMENT/TE TAUĀKI Ā-HUA

<b>Strategic Purpose statement/ Te rautaki o te tohu</b>
<p>The purpose of this qualification is to provide the Aotearoa New Zealand public health sector with qualified Cardiac Technicians*.</p> <p>Graduates will be multiskilled and able to apply technical and theoretical knowledge to their clinical practice and respond with sensitivity to people from diverse contexts and cultural backgrounds. They will be qualified to perform specialised roles as frontline healthcare providers, either independently or as part of multidisciplinary teams, including, but not limited to:</p> <ul style="list-style-type: none"> <li>• 12 lead Electrocardiogram ('ECG') recording.</li> <li>• Ambulatory monitor (Holter/event/blood pressure) fitting, removal/downloading, triaging results</li> <li>• Basic ECG interpretation</li> <li>• Exercise tolerance testing</li> </ul> <p>*Cardiac Technicians can also be referred to as <i>Cardiac Physiology Technicians</i> or <i>Physiology Technicians</i> (with a cardiac scope of practice). They are described as <i>Cardiac Technicians</i> in this qualification document.</p>

### Graduate Profile/ Ngā hua o te tohu

Graduates of this qualification will be able to:

- Deliver competent health care, incorporating legal, ethical, and culturally safe practice to improve patient experience and outcomes in the hospital.
- Apply knowledge of normal cardiovascular anatomy and physiology to clinical practice to interpret patient's test results and health status.
- Apply knowledge of; abnormal cardiovascular anatomy and physiology, pathological conditions, and risk factors for cardiovascular disease, during clinical procedures.
- Perform high quality 12 lead ECG recording by applying knowledge of correct ECG technique, equipment operation, troubleshooting and patient centred care.
- Produce high quality recordings and relevant data, by optimising patient and equipment factors, during fitting, removing, and downloading of long-term ambulatory ECG and blood pressure monitors.
- Apply basic ECG interpretation skills, including judgement of the significance of the ECG abnormalities, to enable appropriate responses in the clinical situations encountered.
- Operate within a multidisciplinary team during exercise tolerance testing, performing; patient setup and monitoring, data recording, ECG evaluation, equipment operation and application of clinical knowledge to determine patient risk and assist with achieving optimal test outcomes.

### Education Pathway/ Ngā huarahi mātauranga

Graduates of this qualification will be able to undertake degree-level study in the fields of Cardiac Physiology.

### Employment, Cultural, Community Pathway/ Ko ngā huarahi ā-mahi, ā-ahurea, ā-whānau, ā-hapū, ā-iwi, ā-hapori anō hoki

Graduates of this qualification have the skills and knowledge required to practice as Cardiac Technicians within Aotearoa New Zealand healthcare settings.

## QUALIFICATION SPECIFICATIONS/ NGĀ TAUWHĀITITANGA O TE TOHU

<p>Qualification Award/ Te whakawhiwhinga o te tohu</p>	<p>This qualification can be awarded by any Tertiary Education Organisation which has an approved programme, or holds accreditation to deliver an approved programme, leading to the qualification.</p>
<p>Evidence requirements for assuring consistency/ Ngā taunaki hei whakaū i te tauritenga</p>	<p>Evidence may include but is not limited to the following:</p> <ul style="list-style-type: none"> <li>• Evidence of effective internal quality assurance systems to assure that graduates meet the qualification outcomes.</li> <li>• Portfolios of work and/or assessment samples demonstrating a range of student performance within a programme and that the graduate outcomes have been met.</li> <li>• A range of workplace evidence that shows how the graduate outcomes are being met.</li> </ul>
<p>Minimum standard of achievement and standards for grade endorsements/ Te pae o raro e tutuki ai, ngā paerewa hoki hei whakaatu i te taumata o te whakatutukinga</p>	<p>Achieved</p>
<p>Other requirements for the qualification (including regulatory body or legislative requirements)/ Kō ētahi atu here o te tohu (tae atu hoki ki ngā here ā-hinonga whakamarumarū, ki ngā here ā-ture rānei)</p>	<ul style="list-style-type: none"> <li>• There is an expectation that industry training programmes leading to this qualification will be completed in a workplace.</li> <li>• Programmes must include a minimum of 2000 hours of work experience.</li> <li>• Learners must be registered with the <a href="#">Clinical Physiologists Registration Board</a> as a <a href="#">Physiology Technician with a Cardiac Scope of Practice</a>.</li> <li>• Conditions to practice will be removed from the Annual Practising Certificate on completion of this qualification.</li> </ul>

<p>General conditions for programme/ Ngā tikanga whānui o te hōtaka</p>	<ul style="list-style-type: none"> <li>• The employing hospital must have sufficient qualified Cardiac Technicians or Cardiac Physiologists available to carry out training plus access to the required type, and volume, of procedures.</li> <li>• Learners require a clinical supervisor who is employed with a job title of Cardiac Technician, or Cardiac Physiologist who have been qualified for more than one year, and hold a current Annual Practicing Certificate</li> <li>• For those training at remote or smaller hospitals, an agreement may be made with a nearby larger hospital to provide access to the required procedures and a clinical supervisor.</li> <li>• Programme delivery may occur across multiple learning modes including online learning, reflective practice, workplace components, face-to-face, simulation, and directed learning.</li> <li>• Patient care and management, and standards of practice, must comply with; the requirements at the employing hospital, along with current procedure guidelines specified by the professional body representing cardiac technicians.</li> <li>• Further training and competency assessment may be required for procedures that the learner is asked to perform outside the scope of this qualification.</li> </ul>
---	--

**CONDITIONS RELATING TO THE GRADUATE PROFILE/ NGĀ TIKANGA E HĀNGAI ANA KI NGA HUA O TE TOHU**

Qualification outcomes/ Ngā hua		Credits/ Ngā whiwhinga	Conditions/ Ngā tikanga
1	Deliver competent health care, incorporating legal, ethical, and culturally safe practice to improve patient experience and outcomes in the hospital.	5	
2	Apply knowledge of normal cardiovascular anatomy and physiology to clinical practice to interpret patient's test results and health status.	20	
3	Apply knowledge of; abnormal cardiovascular anatomy and physiology, pathological conditions, and risk factors for cardiovascular disease, during clinical procedures.	20	
4	Perform high quality 12 lead ECG recording by applying knowledge of correct ECG technique, equipment operation, troubleshooting and patient centred care.	25	
5	Produce high quality recordings and relevant data, by optimising patient and equipment factors, during fitting, removing, and downloading of long-term ambulatory ECG and blood pressure monitors.	20	
6	Apply basic ECG interpretation skills, including judgement of the significance of the ECG abnormalities, to enable appropriate responses in the clinical situations encountered.	30	
7	Operate within a multidisciplinary team during exercise tolerance testing, performing; patient setup and monitoring, data recording, ECG evaluation, equipment operation and application of clinical knowledge to determine patient risk and assist with achieving optimal test outcomes.	30	

**TRANSITION INFORMATION/ HE KŌRERO WHAKAWHITI**

<p>Replacement information/ He kōrero mō te whakakapi</p>	<p>N/A</p>
<p>Additional transition information/ Kō ētahi atu kōrero mō te whakakapi</p>	<p><b>Version Information</b></p> <p>This qualification was listed in December 2024. Please refer to <a href="#">Qualifications and Assessment Standards Approvals</a> for further information.</p> <p>The Qualification Developer may be contacted at:</p> <p>Toitū te Waiora Workforce Development Council PO Box 445 Wellington 6140</p> <p>Phone: 04 909 0356 Email: <a href="mailto:qualifications@toitutewaiora.nz">qualifications@toitutewaiora.nz</a> Website: <a href="https://toitutewaiora.nz/">https://toitutewaiora.nz/</a></p>