

Qualification details

Title	New Zealand Certificate in Infrastructure Works Plant and Equipment Operation (Level 3) with an optional strand in Specialist Plant		
Version	2	Qualification type	Certificate
Level	3	Credits	40-70
NZSCED	030999	Engineering and Related Technologies > Civil Engineering > Civil Engineering not elsewhere classified	
Qualification developer	Infrastructure ITO (Connexis)		
<p style="color: red;">This qualification has been reviewed and replaced. The last date to meet its requirements is 31 December 2020.</p>			
Approval date	August 2018		
Strategic purpose statement	<p>The purpose of this qualification is to provide the infrastructure works industry with people who are able to safely and effectively operate plant and equipment in a range of infrastructure contexts.</p> <p>The level of technical skills and responsibility of plant and equipment operators is critical for ensuring the quality of our infrastructure, and the safety of operators, the public and structures.</p> <p>This qualification is for those wanting to solely focus on operating large plant and equipment, and/or applying their skills in the civil, surfacing and underground utilities sectors.</p>		
Outcome Statement	Graduate profile	<p>Graduates of this qualification will be able to:</p> <ul style="list-style-type: none"> - communicate and work safely when operating large plant and equipment on an infrastructure works site - inspect, maintain and operate large plant and equipment on an infrastructure works site. <p>The Specialist Plant optional strand</p> <ul style="list-style-type: none"> - inspect, maintain and operate specialist plant and equipment on an infrastructure works site. 	
	Education pathway	<p>This qualification builds on the New Zealand Certificate in Infrastructure Works (Level 3) [Ref: 2523] and leads to New Zealand certificates in civil works and infrastructure works at level four and above.</p>	
	Employment pathway	<p>Graduates of this qualification will likely be employed as plant or equipment operators in a broad range of sectors within the</p>	

	<p>infrastructure works industry in the following contexts:</p> <ul style="list-style-type: none"> - civil works - surfacing operations - underground utilities works.
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Qualification specifications

<p>Qualification award</p>	<p>This qualification will be awarded by the accredited organisation with whom the graduate has been enrolled.</p> <p>The certificate will display the logos of the NZQF and the accredited organisation.</p>
<p>Evidence requirements for assuring consistency</p>	<p>Each tertiary education organisation (TEO) is responsible for deciding what specific evidence it will provide to demonstrate how well its graduates meet the graduate profile outcomes at the appropriate threshold.</p> <p>The following is core evidence that may be provided for NZCPE L3 consistency reviews:</p> <ul style="list-style-type: none"> - internal and external moderation processes and results relating to the assessment of graduate outcomes - feedback, and actions taken by the TEO in response to feedback - programme completion data and course results - any other relevant evidence. <p>For more information on evidence for consistency relating to this qualification, contact the Quality Assurance team at info@connexis.org.nz; and refer to <i>Guidelines for approval of New Zealand qualifications for listing on the New Zealand Qualifications Framework</i> at www.nzqa.govt.nz.</p>
<p>Credit transfer and recognition of prior learning arrangements</p>	<p>TEOs delivering programmes that lead to the award of this qualification may transfer credit and recognise prior learning in accordance with their own recognition policies and procedures.</p> <p>Credit transfer will be automatic where assessment standards are used for assessment within programmes of study or training leading to this qualification.</p> <p>Recognition of current competence (RCC) acknowledges the skills and knowledge from work and experience, or from courses of study undertaken. Assessment of RCC may be conducted by an assessor appointed by Infrastructure ITO, or by an organisation with consent to assess.</p>
<p>Minimum standard of achievement and standards for grade endorsements</p>	<p>Achievement of all core components of this qualification.</p> <p>There are no grade endorsements for this qualification.</p>

Entry requirements (including prerequisites to meet regulatory body or legislative requirements)	Although this qualification is achievable as a stand-alone qualification, for those wanting to focus solely on operating plant and equipment, it is recommended that candidates achieve the New Zealand Certificate in Infrastructure Works (Level 3) [Ref: 2523], prior to this qualification, to gain a good understanding of operating in an infrastructure works environment.
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Qualification conditions

Overarching conditions relating to the qualification

Conditions for programme structure	Included below are mandatory conditions which have been agreed by industry to reflect best practice and must be included in the programme. Further optional conditions have been included to further assist in fulfilling the requirements of the graduate profile outcomes. For more detailed guidelines for programme development (including recommended unit standards), contact the qualification developer at: qualifications@connexis.org.nz .
Conditions for programme context	TEOs offering programmes leading to this qualification must maintain currency with amendments to, and replacements of, relevant legislation, regulations, rules, and Australia/New Zealand standards.
Other conditions	Appropriate licences and endorsements to operate plant and equipment must be attained - D, F, W, T, R. Appropriate traffic management training for the type and level of roads must be attained.

Specific conditions relating to the Graduate profile

	Qualification outcomes	Conditions	Mandatory or Optional
1	Communicate and work safely when operating large plant and equipment on an infrastructure works site. Credits 10	Must include: Safety: <ul style="list-style-type: none"> - Health and Safety in Employment Act 1992 (HSE) requirements; hazards; risks; people, environment and structures; personal protective equipment (PPE). Communication: <ul style="list-style-type: none"> - site information; tasks; public and colleagues regarding site activities. 	Mandatory
2	Inspect, maintain and operate large plant and equipment on an infrastructure works site. Credits 30	Candidates must be able to inspect, maintain and safely and effectively operate plant and equipment used for infrastructure works activities. Some examples of the types of plant and	Mandatory

		<p>equipment used, in this context, include, but are not limited to:</p> <ul style="list-style-type: none"> - asphalt paving machine - bulldozer - transporter - dump truck - hydro-excavator - motor grader for earthworks - motor scraper - power-driven rotary broom - road-mill - road-sweeper - self-propelled, bladed compactor - self-propelled roller - skid steer - suction cleaning vehicle - telehandler - tractor - truck-mounted roller-spreader - water cart for bulk earthmoving - water-jetting unit - wheeled loader 	
		<p>May include an understanding and application of:</p> <ul style="list-style-type: none"> - the principles and hazards management of lifting and moving loads - the types and inspection of lifting attachments - special communications used for operations. 	Optional
Specialist Plant optional strand			
3	<p>Inspect, maintain and operate specialist plant and equipment on an infrastructure works site.</p> <p>Credits 30</p>	<p>Must include at least one specialist plant. This may include but is not limited to:</p> <ul style="list-style-type: none"> - operating a hydraulic excavator for general works, facing and benching, and rock placement - operating a motor grader for road maintenance, or - operating a motor grader for road construction - operating a reclaimer stabiliser, and a stabilising spreader. 	Mandatory

Transition information

Replacement information Version 2	<p>This qualification, and the New Zealand Certificate in Infrastructure Works (Level 3) [Ref: 2523], was replaced by the:</p> <ul style="list-style-type: none">• New Zealand Certificate in Infrastructure Works (Level 3) with optional strand in Plant Operation [Ref: 3856].
Replacement information Version 1	<p>This qualification replaced the following qualifications:</p> <ul style="list-style-type: none">- National Certificate in Civil Plant Operation with strands in Culverts and Drainage Systems, Earthworks, Road construction, and Road Maintenance [Ref: 1325]- National Certificate in Infrastructure Works (Bulk Earthmoving) [Ref: 1094]- National Certificate in Infrastructure Works with strands in Concrete Kerb and Channel, Concrete Work, Culverts and Drainage Systems, Interlocking Paving, Retaining Structures, Road Construction, Road Maintenance, Road Safety Barrier, Roadside Amenities, and Traffic Signage [Ref:1326]- National Certificate in Infrastructure Works (Forestry Earthworks) with strands in Bulldozer, Hydraulic Excavator, and Motor Grader [Ref:1083]- National Certificate in Pavement Surfacing (Plant Operation) (Level 3) [Ref:1428].
Version 2	<p>The last date for enrolments into programmes leading to this replaced qualification is 31 December 2019.</p> <p>The last date for assessments to take place for this replaced qualification is 31 December 2020.</p> <p>People currently working towards this replaced qualification may either complete its requirements by 31 December 2020 or transfer to the replacement qualification.</p> <p>It is the intention of Infrastructure ITO that no existing trainee should be disadvantaged by these transition arrangements. Any person who considers they have been disadvantaged may appeal to the Infrastructure ITO (Connexis) at qualifications@connexis.org.nz or 04 499 9144.</p>
Version 1	<p>This version of the qualification was listed in 2014. The national qualifications that it replaced are no longer available.</p>

Republication information

Version 1 of this qualification was republished in July 2015 to update the Other Conditions to align across the qualification suite.