

Qualification details

Title	New Zealand Certificate in Forest Harvesting Operations (Level 4) with strands in Cable Extraction; Fleet, Sort and Stack; Ground Based Extraction; Head Breaker - out; Loading; Log Making; Mechanised Felling; Mechanised Processing; Spotting; Swing Yarder Extraction; and Tree Felling		
Version	1	Qualification type	Certificate
Level	4	Credits	45-72
NZSCED	050501	Agriculture, Environmental and Related Studies > Forestry Studies > Forestry Studies	
Qualification developer	Competenz		
Next review	December 2019		
Approval date	January 2015		
Strategic purpose statement	<p>The purpose of this qualification is to provide the forest industry with individuals who have the skills and knowledge required to be employed in a production role in a harvesting operation. They will hold a senior position within the crew and will be able to contribute to the planning of a harvesting operation. They will be able to make decisions regarding their area of specialisation.</p> <p>Graduates will be responsible for the safe and efficient operation of forest harvesting plant and equipment without supervision. Graduates will also be responsible for the maintenance of plant and equipment and will be capable of maintaining productivity within the operation.</p> <p>The qualification includes eleven strands which represent distinct activities within forest harvesting operations.</p>		
Outcome Statement	Graduate profile	<p>Graduates of this qualification will be able to:</p> <ul style="list-style-type: none"> - Coordinate workplace health, safety, and communication, and contribute to the team in a forest harvesting operation. - Apply knowledge of operational requirements to ensure risk to the physical environment, areas of cultural significance to Māori and areas of historical and archaeological value are identified and protected in forest harvesting operations. <p>Graduates of the Cable Extraction strand will also be able to:</p> <ul style="list-style-type: none"> - Develop, implement and evaluate extraction plans in a range of operational situations. - Extract stems using a cable yarder to meet the safety, environmental and productivity requirements of the operation. <p>Graduates of the Fleet, Sort and Stack strand will also be able</p>	

		<p>to:</p> <ul style="list-style-type: none"> - Fleet, sort and stack logs using forestry machines to meet the safety, environmental and productivity requirements of the operation. <p>Graduates of the Ground Based Extraction strand will also be able to:</p> <ul style="list-style-type: none"> - Extract stems using a ground based extraction machine to meet the safety, environmental and productivity requirements of a harvesting operation. <p>Graduates of the Head Breaker Out strand will also be able to:</p> <ul style="list-style-type: none"> - Develop, implement and evaluate breaking out plans in a range of operational situations. - Coordinate a breaking out team to ensure a range of breaking out operations are safe and productive. <p>Graduates of the Loading strand will also be able to:</p> <ul style="list-style-type: none"> - Manage log stocks, truck loading and documentation using forestry machines to meet the safety, environmental and productivity requirements of a harvesting operation. <p>Graduates of the Log Making strand will also be able to:</p> <ul style="list-style-type: none"> - Assess and mark stems to maximise value recovery and meet the requirements of log specification/cutting instructions. - Coordinate quality, productivity, and external communication to meet the requirements of the forest owner and the landing operation. <p>Graduates of the Mechanised Felling strand will also be able to:</p> <ul style="list-style-type: none"> - Develop, implement and evaluate felling plans in a range of operational situations. - Use and maintain a felling head to fell trees to meet the safety, environmental and productivity requirements of a harvesting operation. <p>Graduates of the Mechanised Processing strand will also be able to:</p> <ul style="list-style-type: none"> - Manage and maintain log making equipment while making logs in a mechanised processing operation. - Coordinate quality, productivity, and external communication to meet the requirements of the forest owner and the landing operation. <p>Graduates of the Spotting strand will also be able to:</p> <ul style="list-style-type: none"> - Develop, implement and evaluate extraction plans in a range of operational situations to meet the safety, environmental and productivity requirements of a harvesting operation. - Plan and manage lineshifts in a cable harvesting operation. <p>Graduates of the Swing Yarder Extraction strand will also be able to:</p>
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		<ul style="list-style-type: none"> - Develop, implement and evaluate extraction plans in a range of operational situations. - Extract stems using a swing yarder to meet the safety, environmental and productivity requirements of the operation. <p>Graduates of the Tree Felling strand will also be able to:</p> <ul style="list-style-type: none"> - Develop, implement, and evaluate felling plans in a range of harvesting operational situations. - Use conventional and advanced felling cuts to safely and productively fell trees in a range of operational situations. - Use machine assistance in tree felling.
	Education pathway	<p>This qualification can lead to the:</p> <ul style="list-style-type: none"> - New Zealand Certificate in Forestry Crew Management (Level 5) [Ref: 2331]. <p>Graduates of this qualification may also decide to complete the following qualification at the same level:</p> <ul style="list-style-type: none"> - New Zealand Certificate in Forest Industry Operations (Planning and Monitoring) (Level 4) with strands in Harvesting, Inventory, and Silviculture [Ref: 2330].
	Employment pathway	<p>Holders of this qualification will be able to work in a forest harvesting crew carrying out work on the landing or in the cutover.</p> <p>Holders of this qualification may be able to progress onto more senior roles within the operation including crew manager or operations manager.</p>

Qualification specifications

Qualification award	<p>This qualification can be awarded by an organisation which has an approved programme of study, or industry training programme leading to the qualification.</p> <p>The certificate will display the logos of the NZQF and may display the name and/or logo of the awarding body.</p>
Evidence requirements for assuring consistency	<p>All tertiary education organisations (TEOs) either arranging training or delivering programmes that lead to the award of the qualification are required to participate in a consistency process scheduled by NZQA.</p> <p>This will involve reviewing evidence associated with graduate's achievement of outcomes, and agreeing acceptable thresholds for qualification outcome achievement and areas for improvement.</p> <p>To demonstrate how graduates are achieving the qualification graduate profile outcomes, TEOs are required to produce their own evidence in a high level report.</p>

	<p>Evidence will include the following:</p> <ul style="list-style-type: none"> - Employer surveys to determine if graduates of the qualification meet the graduate profile outcomes - Evidence of effective processes to ensure programmes continue to meet current industry needs - A range of workplace evidence demonstrating that graduates meet the graduate profile outcomes - Any other relevant evidence as appropriate. <p>Further information about the managing consistency process can be found on the NZQA website.</p>
Credit transfer and recognition of prior learning arrangements	Organisations that offer programmes towards the qualification are expected to have Recognition of Current Competence (RCC) or Recognition of Prior Learning (RPL) assessment processes in place. Credit transfer will be automatic where assessment standards are used for assessment within programmes of study or training leading to this qualification.
Minimum standard of achievement and standards for grade endorsements	Achievement of all outcomes. There are no grade endorsements for this qualification.
Entry requirements (including prerequisites to meet regulatory body or legislative requirements)	None.

Qualification conditions

Overarching conditions relating to the qualification

Conditions for programme structure	None.
Conditions for programme context	None.
Other conditions	This qualification will typically be achieved in a workplace environment.

Specific conditions relating to the Graduate profile

Qualification outcomes	Conditions	Mandatory or Optional
1 Coordinate workplace health, safety, and communication, and contribute to the team in a forest harvesting operation. Credits 15		

2	<p>Apply knowledge of operational requirements to ensure risk to the physical environment, areas of cultural significance to Māori and areas of historical and archaeological value are identified and protected in forest harvesting operations.</p> <p>Credits 10</p>		
3	<p>Cable Extraction strand</p> <p>Develop, implement and evaluate extraction plans in a range of operational situations.</p> <p>Credits 23</p>		
4	<p>Extract stems using a cable yarder to meet the safety, environmental and productivity requirements of the operation.</p> <p>Credits 18</p>		
5	<p>Fleet, Sort and Stack strand</p> <p>Fleet, sort and stack logs using forestry machines to meet the safety, environmental and productivity requirements of the operation.</p> <p>Credits 20</p>		
6	<p>Ground Based Extraction strand</p> <p>Extract stems using a ground based extraction machine to meet the safety, environmental and productivity requirements of a harvesting operation.</p> <p>Credits 25</p>		
7	<p>Head Breaker Out strand</p> <p>Develop, implement and evaluate breaking out plans in a range of operational situations.</p> <p>Credits 35</p>		
8	<p>Coordinate a breaking out team to ensure a range of breaking out operations are safe and productive.</p> <p>Credits 12</p>		
9	<p>Loading strand</p> <p>Manage log stocks, truck loading and documentation using forestry machines to meet the safety, environmental and productivity requirements of a harvesting</p>		

	operation. Credits 25		
10	Log Making strand Assess and mark stems to maximise value recovery and meet the requirements of log specification/cutting instructions. Credits 10		
11	Coordinate quality, productivity, and external communication to meet the requirements of the forest owner and the landing operation. Credits 10		
12	Mechanised Felling strand Develop, implement and evaluate felling plans in a range of operational situations. Credits 5		
13	Use and maintain a felling head to fell trees to meet the safety, environmental and productivity requirements of a harvesting operation. Credits 20		
14	Mechanised Processing strand Manage and maintain log making equipment while making logs in a mechanised processing operation. Credits 28		
15	Coordinate quality, productivity, and external communication to meet the requirements of the forest owner and the landing operation. Credits 10		
16	Spotting strand Develop, implement and evaluate extraction plans in a range of operational situations to meet the safety, environmental and productivity requirements of a harvesting operation. Credits 17		
17	Plan and manage lineshifts in a cable harvesting operation.		

	Credits 15		
18	<p>Swing Yarder Extraction strand</p> <p>Develop, implement and evaluate extraction plans in a range of operational situations.</p> <p>Credits 23</p>		
19	<p>Extract stems using a swing yarder to meet the safety, environmental and productivity requirements of the operation.</p> <p>Credits 18</p>		
20	<p>Tree Felling strand</p> <p>Develop, implement, and evaluate felling plans in a range of harvesting operational situations.</p> <p>Credits 10</p>		
21	<p>Use conventional and advanced felling cuts to safely and productively fell trees in a range of operational situations.</p> <p>Credits 20</p>		
22	<p>Use machine assistance in tree felling.</p> <p>Credits 5</p>		

Transition information

Replacement information	<p>This qualification and the New Zealand Certificate in Forest Industry Operations (Planning and Monitoring) (Level 4) with strands in Harvesting, Inventory, and Silviculture [Ref: 2330], replaced the National Certificate in Forest Operations Advanced (Level 4) with strands in Establishment and Silvicultural Operations Management, Production Tree Felling, Hauler Set-up, Machine Operations - Hauler, Head Breaker Out - Cable Harvesting, Log Making, Machine Operations - Log Extraction, Machine Operations - Loader, Mechanised Tree Felling, Mechanised Processing, Helicopter Logging, and Inventory [Ref: 1412].</p>
<p>People currently working towards Ref: 1412 may complete the qualification by 31 December 2018 or transfer their results to one of the replacement New Zealand qualifications.</p> <p>The last date for enrolments into this expiring qualification is 31 December 2017.</p> <p>It is anticipated that no existing candidates will be disadvantaged by these transition arrangements. However, anyone who feels that they have been disadvantaged may appeal to Competenz at the address below. Appeals will be considered on a case-by-case basis.</p> <p>Competenz, PO Box 9005, Newmarket, Auckland 1149.</p>	

Republication information

Version 1 of this qualification was republished in October 2015 to extend the last date of enrolment into programmes leading to the replaced National Certificate in Forest Operations Advanced (Level 4) with strands in Establishment and Silvicultural Operations Management, Production Tree Felling, Hauler Set-up, Machine Operations - Hauler, Head Breaker Out - Cable Harvesting, Log Making, Machine Operations - Log Extraction, Machine Operations - Loader, Mechanised Tree Felling, Mechanised Processing, Helicopter Logging, and Inventory [Ref: 1412] from 31 December 2015 to 31 December 2017 and to extend the last date for assessment from 31 December 2017 to 31 December 2018.