

# Entry Level Forestry Skills Project



## Summary of Changes Document

May 2021

Attracting and training new entrants is a high priority for the forestry industry, due to high demands for products from forests. School students living in regional areas where Australian plantation forests are located should be able to access school-based VET training or apprenticeships that provide a career path into a range of forestry roles and equip them with the skills they need to get started. As part of this project, qualifications and skills standards for entry level forestry roles are being revised and broadened to better meet current skills needs and attract new young entrants.

**Qualifications, skill sets and units of competency have been revised and updated and are available on the [Skills Impact website](#) from 18 May to 15 June 2021.**

Your feedback will inform further updates to the drafts, after which they will be made available again for your consideration and validation.

### Overview of Key Changes

- Consolidated the four forest growing management and harvesting and haulage qualifications at the Australian Qualifications Framework (AQF) level II and III into one qualification at each level, resulting in a *Certificate II in Forest Operations* and a *Certificate III in Forest Operations*. The qualifications are designed to offer specialisations in Forest Nursery Production, Silviculture and Timber Harvesting and Haulage. Units of competency from the Foundation Skills Training Package have been included in the qualifications to allow for soft skills development so that young learners are prepared to navigate workplaces.
- *The Certificate I in Forest and Forest Products* is proposed for deletion as it has had no enrolment in the last five years. All units within the qualification are included in the proposed *Certificate II in Forest Operations*.
- Two skill sets have been developed for plantation establishment and silviculture workers to support the industry to overcome the workforce shortage due to the 2019-2020 bushfire season and COVID-19 travel restrictions. The skill sets can be used as short course training to upskill workers to do a specific job or as an entry pathway to further training.
- Two units of competency have been developed to encourage young people to participate in forestry-related VET in school programs. The units allow for training that supports learners in developing a contemporary view of the industry and interacting with forestry technology and operations through forestry machine simulators.
- Units have also been created to support skill development for jobs in forest nursery production operations. These skills are currently in high demand due to the need to generate new tree stock to replenish extensive forest areas burnt out during the recent bushfires.
- Five units of competency are proposed for deletion due to no enrolments during the last three years.
- Three units of competency with similar learning outcomes have been consolidated and revised to become one unit for *FWPFGM3XXX Extract, clean, store and despatch tree seeds*.

Acronyms: APP – Application, E – Element, FWP – Forest and Wood Products, PC – Performance Criteria, PE – Performance Evidence, KE – Knowledge Evidence, AC – Assessment Conditions, SMEs – Subject Matter Experts, ER – Entry Requirements

## Qualifications

The four forest growing management and harvesting and haulage qualifications at the Australian Qualifications Framework (AQF) level 2 and 3 have been consolidated into one qualification at each level, resulting in a Certificate II in Forest Operations and a Certificate III in Forest Operations, with specialisations.

The qualifications have been designed to support efficient training delivery and provide flexible training to entry-level and skilled operators to meet current job requirements.

The Certificate II in Forest Operations describes the job of people who provide support to forest operations in a variety of forestry contexts. It is also for learners who are involved in school-based VET traineeships and other VET in school programs.

The Certificate III in Forest Operations describes the job of people who operate at a production level in a forest operation.

Both qualifications offer specialisations in:

- Forest Nursery Production
- Silviculture
- Timber Harvesting and Haulage

The specialisations offer more training options, clear career pathways into a range of forestry roles and flexibility to choose from a range of career pathways, including the possibility to complete additional specialisations with a minimum number of units.

Existing/Replaced Qualification	Revised Qualification	Proposed changes
FWP20116 Certificate II in Forest Growing and Management	FWP2XX21 Certificate II in Forest Operations	<ul style="list-style-type: none"> <li>• Merged into one qualification with 3 specialisations:                             <ul style="list-style-type: none"> <li>○ <i>Forest Nursery Production</i></li> <li>○ <i>Silviculture</i></li> <li>○ <i>Timber Harvesting</i></li> </ul> </li> <li>• Maintained the total number of units for qualification completion to 13</li> <li>• Created and added 6 new elective FWP units</li> <li>• Imported 11 elective units from other training packages</li> <li>• Moved <i>HLTAID001 Provide First Aid</i> and <i>FWPCOR2204 Follow fire prevention</i> from core to electives</li> </ul>
FWP20216 Certificate II in Harvesting and Haulage		
FWP30116 Certificate III in Forest Growing and Management	FWP3XX21 Certificate III in Forest Operations	<ul style="list-style-type: none"> <li>• Merged into one qualification with 3 specialisations:                             <ul style="list-style-type: none"> <li>○ <i>Forest Nursery Production</i></li> <li>○ <i>Silviculture</i></li> <li>○ <i>Timber Harvesting and Haulage</i></li> </ul> </li> <li>• Maintained total number of units for qualification completion to 13</li> <li>• Created and added 5 new FWP elective units</li> <li>• Moved <i>HLTAID001 Provide First Aid</i>, <i>FWPCOR3203 Evaluate fire prevention</i> and</li> </ul>
FWP30216 Certificate III in Harvesting and Haulage		

		<i>FWPCOR3202 Conduct quality and product care procedures from core to electives</i>
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### Qualification Proposed for Deletion

The Certificate I in Forest and Forest Products is proposed for deletion, based on the reasons outlined below. Please email feedback to Georgiana Daian [gdaian@forestworks.com.au](mailto:gdaian@forestworks.com.au)

Qualification code and title	Rationale
FWP10116 Certificate I in Forest and Forest Products	<ul style="list-style-type: none"> <li>No enrolments during the last 5 years</li> <li>Not listed on the State funded course lists</li> <li>No RTO delivers or has it on the scope of registration</li> <li>All units are included in the Certificate II in Forest Operations.</li> </ul>

## Skills Sets

### New Skill Sets

Two skill sets have been created for plantation establishment workers and silviculture workers. The skill sets can be used as short course training for upskilling people or as an entry pathway to further training.

New Skill Set	Comprised of Units	Application
FWPSS0000X Plantation Establishment Worker Skill Set	FWPCOR2XXX Follow health and safety policies and procedures FWPCOR2XXX Work effectively in the forest and forest products industry FWPFGM2XXX Plant trees by hand	This skill set provides the skills and knowledge required to plant trees by hand effectively as part of a commercial forest operation while applying workplace health and safety requirements.
FWPSS0000X Silviculture Worker Skill Set	FWPCOR2XXX Follow environmental protection procedures FWPCOR2XXX Follow health and safety policies and procedures FWPCOR2239 Trim and cut felled trees FWPCOT3301 Trim trees using a pole saw FWPCOT3XXX Operate four wheel drive vehicle on unsealed terrain types FWPCOT3XXX Recover four wheel drive vehicles	This skill set provides the skills and knowledge required to trim and cut felled trees and branches as part of silviculture operations while applying workplace safety and environmental requirements and operate a four wheel drive vehicle on forestry terrain.

### Revised Skill Sets

Fifteen existing skill sets have been revised to include updated units of competency. In addition, the unit *HLTAID001 Provide First Aid* has been removed from all forestry machine operator skill sets as it requires joint delivery through a specialist RTO creating inefficiencies in the delivery of the skill sets. Industry feedback suggests that all employers in the forest industry provide first aid training to workers as part of the employment requirements regardless.

Current Skill Set	Revised Skill Set	Comprised of Units
FWPSS00016 Skill set for a mechanical	FWPSS0000X Mechanical Processor Operator Skill Set	FWPCOR2XXX Follow environmental protection procedures FWPCOR2XXX Follow health and safety policies and procedures

processor operator		FWPHAR3XXX Conduct mechanical processor operations
FWPSS00017 Skill set for a native forest operator	FWPSS0000X Native Forest Operator Skill Set	FWPCOR2XXX Follow environmental protection procedures FWPCOR2XXX Follow health and safety policies and procedures FWPCOT3XXX Apply sustainable silviculture methods and techniques FWPCOT2XXX Follow cultural heritage protection requirements FWPCOT3XXX Apply sustainable silviculture methods and techniques FWPCOT3314 Comply with soil and water protection
FWPSS00018 Skill set for a plantation forest operator	FWPSS0000X Plantation Forest Operator Skill Set	FWPCOR2XXX Follow environmental protection procedures FWPCOR2XXX Follow health and safety policies and procedures FWPCOT2XXX Follow cultural heritage protection requirements FWPCOT3314 Comply with soil and water protection
FWPSS00022 Skill set for fire salvage operations	FWPSS0000X Fire Salvage Operator Skill Set	FWPCOR2XXX Follow environmental protection procedures FWPCOR2XXX Follow health and safety policies and procedures FWPCOT3311 Use environmental care procedures to undertake fire salvage operations
FWPSS00023 Skill set for off road four wheel drive operations	FWPSS0000X Off Road Four Wheel Drive Operator Skill Set	FWPCOT3XXX Perform complex four wheel drive operations FWPCOT3XXX Operate four wheel drive vehicle on unsealed terrain types FWPCOT3XXX Recover four wheel drive vehicle FWPCOT3XXX Operate four wheel drive vehicle in a towing situation FWPCOT2XXX Navigate in forest areas
FWPSS00024 Skill set for soil and water protection (roading)	FWPSS0000X Soil and Water Protection (Roading) Skill Set	AHCSAW304 Implement erosion and sediment control measures FWPCOR2XXX Follow health and safety policies and procedures FWPCOT3314 Comply with soil and water protection
FWPSS00026 Skill set for a forestry log truck driver	FWPSS0000X Log Truck Driver Skill Set	FWPCOR2XXX Follow environmental protection procedures FWPCOR2XXX Follow health and safety policies and procedures FWPCOT3315 Transport forestry logs using trucks
FWPSS00027 Skill set for a forestry produce truck driver	FWPSS0000X Forestry Produce Truck Driver Skill Set	FWPCOR2XXX Follow environmental protection procedures FWPCOR2XXX Follow health and safety policies and procedures FWPCOT3316 Transport forestry produce using trucks
FWPSS00032 Skill set for a crawler tractor operator	FWPSS0000X Crawler Tractor Operator Skill Set	FWPCOR2XXX Follow environmental protection procedures FWPCOR2XXX Follow health and safety policies and procedures FWPHAR3224 Operate crawler tractor
FWPSS00033 Skill set for a feller buncher operator	FWPSS0000X Feller Buncher Operator Skill Set	FWPCOR2XXX Follow environmental protection procedures FWPCOR2XXX Follow health and safety policies and procedures FWPHAR3226 Operate feller buncher

FWPSS00034 Skill set for a forwarder operator	FWPSS0000X Forwarder Operator Skill Set	FWPCOR2XXX Follow environmental protection procedures FWPCOR2XXX Follow health and safety policies and procedures FWPHAR3227 Operate forwarder
FWPSS00035 Skill set for a loader operator	FWPSS0000X Loader Operator Skill Set	FWPCOR2XXX Follow environmental protection procedures FWPCOR2XXX Follow health and safety policies and procedures FWPHAR3228 Operate loader
FWPSS00036 Skill set for a single grip harvester operator	FWPSS00036 Single Grip Harvester Operator Skill Set	FWPCOR2XXX Follow environmental protection procedures FWPCOR2XXX Follow health and safety policies and procedures FWPHAR3229 Operate single grip harvester
FWPSS00037 Skill set for a skidder operator	FWPSS00037 Skidder Operator Skill Set	FWPCOR2XXX Follow environmental protection procedures FWPCOR2XXX Follow health and safety policies and procedures FWPHAR3230 Operate skidder
FWPSS00038 Skill set for an excavator with log grapple operator	FWPSS00038 Excavator With Log Grapple Operator Skill Set	FWPCOR2XXX Follow environmental protection procedures FWPCOR2XXX Follow health and safety policies and procedures FWPHAR3225 Operate excavator with log grapple

## Units of competency

### Safety and Environmental Practices – revised units

Four existing units of competency covering workplace safety and environmental and cultural heritage protection have been reviewed and updated. These units have undergone minor revisions to improve the work task description and meet the requirements of Standards for Training Packages.

Current unit code and name	Revised unit code and name	Proposed changes/rationale
FWPCOR2203 Follow environmental care procedures	FWPCOR2XXX Follow environmental protection procedures	<ul style="list-style-type: none"> <li>Updated unit title</li> <li>Change to Application Statement to clarify scope of unit</li> <li>Minor editorial changes to Performance Criteria, Performance Evidence and Knowledge Evidence</li> <li>New description provided for Foundation Skills</li> <li>Redrafted Assessment Conditions</li> </ul>
FWPCOR2205 Follow WHS policies and procedures	FWPCOR2XXX Follow health and safety policies and procedures	<ul style="list-style-type: none"> <li>Updated unit title</li> <li>Minor editorial changes to Performance Criteria and Knowledge evidence</li> <li>New description provided for Foundation Skills</li> <li>Redrafted Assessment Conditions</li> </ul>
FWPCOR3201 Implement safety, health and environmental policies and procedures	FWPCOR3XXX Apply safety, health and environmental policies and procedures	<ul style="list-style-type: none"> <li>Minor change to title</li> <li>Minor change to Application Statement clarifying where work is conducted</li> <li>Reworded Element 1 and PCs 1.1-1.5 to clarify scope of work in relation to identifying workplace safety, health and environmental care goals</li> <li>Reworded Element 2 and PCs 2.1-2.5 to clarify scope of work in relation to assessing and controlling hazards</li> </ul>

		<ul style="list-style-type: none"> <li>• Reworded Element 3 and PCs 3.1-3.6 to clarify scope of work in relation to applying workplace safety, health and environmental care policies and procedures</li> <li>• Integrated Element 4 and related PCs in Elements 1-3</li> <li>• New description provided for Foundation Skills</li> <li>• Redrafted Performance Evidence to reflect changes to Elements and PCs</li> <li>• Update Knowledge Evidence to clarify requirements and align with PCs</li> <li>• Redrafted Assessment Conditions</li> </ul>
FWPCOT3257 Follow cultural heritage requirements	FWPCOT2XXX Follow cultural heritage protection requirements	<ul style="list-style-type: none"> <li>• Minor change to title</li> <li>• Minor change to Application Statement to clarify where work is conducted</li> <li>• Redrafted Element 1 and PCs 1.1 – 1.5 to clarify focus on cultural heritage protection and include contractual arrangements to protect cultural heritage</li> <li>• Minor wording changes to Element 2 and PCs 2.1 -2.6 to clarify focus on cultural heritage protection</li> <li>• Minor wording changes to Element 3 and PCs 3.1 - 3.5 to clarify focus on cultural heritage protection</li> <li>• Incorporated Element 4 in Element 3</li> <li>• New description provided for Foundation Skills</li> <li>• Changes to Knowledge Evidence to clarify requirements and provide more contemporary definition of cultural heritage, identify stakeholders engaged in protection of cultural heritage protection and identify consequences of non-compliance with cultural heritage requirements.</li> <li>• Redrafted Assessment Conditions</li> </ul>

### Industry Knowledge, Work Effectiveness and Quality Work - New Units

Two new units of competency have been developed to support entry-level workers in forestry operations jobs, particularly learners involved in school-based VET traineeships and other VET in school programs.

These units describe the skills and knowledge required to develop a contemporary view of the industry and interact with forestry technology and operations by learning and practising on forestry machine simulators.

<b>New unit code and name</b>	<b>Application</b>
FWPCOT2XXX Develop knowledge of the forest and wood products industry	This unit of competency describes the skills and knowledge required by new entrants to the forest and wood products industry to develop a contemporary view of the industry, identify potential career pathways and be aware of both the impact and opportunities that are being created by technological innovation and improved environmental management in the industry.
FWPHAR2XXX Operate a simulated forest machine	<p>This unit of competency describes the skills and knowledge required to use a forestry machine simulator for practicing work methods before learning to operate real equipment.</p> <p>This unit does not provide technical skills and knowledge that enable a person to operate a forestry machine in the workplace</p>

	<p>but rather provide foundation skills in forestry machine operations.</p> <p>This unit does not include the use of on board computing functions.</p>
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### Industry Knowledge, Work Effectiveness and Quality Work - Revised Units

Four existing units of competency covering efficient work practices and quality work have been reviewed and updated. These units have undergone minor revisions to improve the work task description and meet the requirements of Standards for Training Packages. The unit *FWPCOR2XXX Communicate and interact effectively in the workplace* was also updated to include communication using electronic communication equipment and participation in group discussions and informal meetings.

Current unit code and name	Revised unit code and name	Proposed changes/rationale
FWPCOR2201 Work effectively in the forest and forest products industry	FWPCOR2XXX Work effectively in the forest and wood products industry	<ul style="list-style-type: none"> <li>• Reworded title</li> <li>• Minor change to Application Statement clarifying where work is conducted</li> <li>• Reworded Element 1, 2 and 3 and associated PCs to clarify work tasks</li> <li>• Revised Knowledge Evidence to align with Elements and PCs</li> <li>• New description provided for Foundation Skills</li> <li>• Performance Evidence redrafted regarding the volume of evidence</li> <li>• Redrafted Assessment Conditions</li> </ul>
FWPCOR2202 Communicate and interact effectively in the workplace	FWPCOR2XXX Communicate and interact effectively in the workplace	<ul style="list-style-type: none"> <li>• <b>New Element 4 and PCs clarifying use of electronic communications equipment</b></li> <li>• <b>New Element 6 and PCs clarifying use of participation in group discussion and informal meetings</b></li> <li>• Minor change to Application Statement clarifying where work is conducted</li> <li>• Minor change to wording of Element 2 to focus on face to face communication skills</li> <li>• Minor wording changes to PC 1.1 and 1.2 to clarify communication skills</li> <li>• Minor wording changes to Element 5 and PCs 5.1-5.4 to clarify completion of workplace forms and documents</li> <li>• New description provided for Foundation Skills</li> <li>• Performance Evidence redrafted regarding the volume of evidence</li> <li>• Minor wording changes to Knowledge Evidence to clarify requirements</li> <li>• Redrafted Assessment Conditions</li> </ul>
FWPCOR2207 Maintain quality and product care	FWPCOR2XXX Follow quality and product care	<ul style="list-style-type: none"> <li>• Reworded title to focus on following quality procedures</li> <li>• Minor change to Application Statement clarifying where work is conducted</li> <li>• Reworded Element 1 and PCs 1.1-1.8 to clarify scope of work in relation to quality requirements</li> <li>• Reworded Element 2 and PCs 2.1-2.4 to focus on visual assessment</li> </ul>

		<ul style="list-style-type: none"> <li>• Minor wording changes to Element 3 and PCs 3.4-3.5 to clarify work task</li> <li>• New description provided for Foundation Skills</li> <li>• Performance Evidence redrafted regarding the volume of evidence</li> <li>• Minor wording changes to Knowledge Evidence to clarify requirements</li> <li>• Redrafted Assessment Conditions</li> </ul>
FWPCOR3202 Conduct quality and product care procedures	FWPCOR3XXX Apply quality and product care procedures	<ul style="list-style-type: none"> <li>• Reworded title</li> <li>• Minor wording changes to PCs 1.1-1.3 to clarify scope of work task</li> <li>• Minor wording changes to Element 2 and PCs 2.2-2.6 to clarify scope of work task</li> <li>• Minor editorial changes to PCs 3.1-3.4 to clarify work tasks</li> <li>• New description provided for Foundation Skills</li> <li>• Performance Evidence redrafted regarding the volume of evidence</li> <li>• Minor changes to Knowledge Evidence to include ways of optimising resource value and minimising waste</li> <li>• Redrafted Assessment Conditions</li> </ul>

#### Forest Nursery Production Operations - New Units

Nine new units of competency have been developed to support workers and operators in forest nursery production operations. These units cover skills and knowledge for maintaining seed orchards, conducting genetic improvement activities, documenting production cycle for bare root or container grown cuttings and seedlings, conditioning tree stock, growing tree stock and using automated tree nursery production systems such as topping equipment and seed sowing lines.

<b>New unit code and name</b>	<b>Application</b>
FWPFGM2XXX Follow quality procedures in forest nursery production	This unit of competency describes the skills and knowledge required to observe quality requirements in tree nursery production.
FWPFGM2XXX Prick out and transplant tree seedlings in a forest nursery	This unit of competency describes the skills and knowledge required to prick out, transplant and pot on tree seedlings and rooted cuttings mainly for revegetation/regeneration production.
FWPFGM2XXX Apply tree seed treatment	This unit of competency describes the skills and knowledge required to apply tree seed treatment technologies for disease control, insect pest control and yield enhancement. Seed applied technologies include inoculants, herbicide safeners, micronutrients, plant growth regulators, seed coatings and colorants.
FWPFGM3XXX Apply knowledge of tree stock growing in a forest nursery	This unit of competency describes the knowledge of the production cycle for bare root and container grown seedlings and cuttings, tree stock conditioning, tree stock topping and mycorrhizae inoculation required to optimise production in a forest nursery.
FWPFGM3XXX Identify, evaluate and mark quality seed trees	This unit of competency describes the skills and knowledge required to identify, evaluate, mark and record the position of potential seed trees.
FWPFGM3XXX Maintain seed orchard	This unit of competency describes the skills and knowledge required to apply silvicultural techniques to maintain a seed orchard.
FWPFGM3XXX Manage mother plants	This unit of competency describes the skills and knowledge required to manage mother plants used in tree nurseries.



FWPFGM3XXX Operate automated topping system as part of tree production nursery operations	This unit of competency describes the skills and knowledge required to operate an automated topping system as part of tree production nursery operations
FWPFGM3XXX Operate automated seed sowing line for containerised forest seedling production	This unit of competency describes the skills and knowledge required to operate a seed sowing line as part of for containerised forest seedling production.

### Forest Nursery Production Operations – Revised Units

Six exiting units of competency covering nursery production operations have been reviewed and updated.

For example, three units including *FWPFGM2213 Process seed*, *FWPFGM3201 Manage seed collection* and *FWPFGM3202 Extract seed* have been consolidated into one unit, *FWPFGM3XXX Extract, clean, store and despatch tree seeds*, to reflect the current work task.

Another unit, *FWPFGM3XXX Graft nursery stock for planting in seed orchard*, has undergone major updates to incorporate current work activities associated with grafting nursery stock. These include preparing for grafting, collecting material for potential scion wood, selecting scion wood and grafting scion wood.

These units have also undergone minor revisions to improve the work task description and meet the requirements of Standards for Training Packages.

Current unit code and name	Revised unit code and name	Proposed changes/rationale
FWPFGM2201 Collect seed	FWPFGM2XXX Collect tree seeds	<ul style="list-style-type: none"> <li>• Reworded title</li> <li>• Minor change to Application Statement clarifying scope of work and where work is conducted</li> <li>• Revised PC structure for Element 1 to reflect scope of work involved in preparing for seed collection</li> <li>• Minor wording change to PC 2.1 - 2.3</li> <li>• Minor wording change to PC 3.1 – 3.4</li> <li>• New description provided for Foundation Skills</li> <li>• Knowledge Evidence amended to include chemical safety</li> <li>• Redrafted Assessment Conditions</li> </ul>
FWPFGM2209 Cut, sort and set cuttings	FWPFGM2XXX Cut, sort and set cuttings	<ul style="list-style-type: none"> <li>• Minor change to Application Statement clarifying scope of work and where work is conducted</li> <li>• Revised PC structure for Element 1 to reflect scope of work involved in preparing for brush cutting operations</li> <li>• Minor editing to PCs 2.1, 2.3, 2.4. 3.1, 3.3.3</li> <li>• New description provided for Foundation Skills</li> <li>• Knowledge Evidence amended to include safe chemical use</li> <li>• Redrafted Assessment Conditions</li> </ul>
FWPFGM2213 Process seed FWPFGM3201 Manage seed collection	FWPFGM3XXX Extract, clean, store and despatch tree seeds	<ul style="list-style-type: none"> <li>• Redesigned unit that includes content from FWPFGM2213 Process seed, FWPFGM3201 Manage seed collection and FWPFGM3202 Extract seed</li> </ul>

FWPFGM3202 Extract seed		
FWPFGM2212 Graft cuttings	FWPFGM3XXX Graft nursery stock for planting in seed orchard	<ul style="list-style-type: none"> <li>• <b>Updated Elements and Performance criteria to clarify work tasks associated with preparing for grafting, collecting material for potential scion wood, selecting scion wood and grafting scion wood</b></li> <li>• <b>Updated Performance and Knowledge Evidence</b></li> <li>• Minor change to Application Statement clarifying scope of work and where work is conducted</li> <li>• New description provided for Foundation Skills</li> <li>• Redrafted Assessment Conditions</li> </ul>

### Silviculture Operations - revised units

Thirteen existing units of competency covering silviculture operations have been reviewed and updated.

For example, three units have been updated to correct the alignment of job tasks with the AQF level. These units are outlined in the table below.

Another unit, *FWPHAR3XXX Use mechanised equipment for forestry site preparation*, has been updated to broaden its application. The revised unit focuses on skills required to use different types of machines and appropriate attachments for two forestry site preparation activities/techniques from a given list on flat or steep terrain.

These units have also undergone minor revisions to improve the work task description and meet the requirements of Standards for Training Packages.

Current unit code and name	Revised unit code and name	Proposed changes/rationale
FWPCOT2233 Navigate in forest areas	FWPCOT2XXX Navigate in forest areas	<ul style="list-style-type: none"> <li>• Minor change to Application Statement clarifying scope of work and where work is conducted</li> <li>• Revised PC structure for Element 1 to reflect scope of work involved in preparing for work</li> <li>• Minor wording change to PC 2.1 -2.6 to clarify work task</li> <li>• Minor wording change to PC 3.1 -6.6 to clarify work task</li> <li>• New description provided for Foundation Skills</li> <li>• Minor wording change to Performance Evidence</li> <li>• Redrafted Assessment Conditions</li> </ul>
FWPFGM2203 Plant trees by hand	FWPFGM2XXX Plant trees by hand	<ul style="list-style-type: none"> <li>• Minor change to Application Statement clarifying scope of work and where work is conducted</li> <li>• Revised PC structure for Element 1 to reflect scope of work involved in preparing for tree planting</li> <li>• Minor wording change to PC 2.1 - 2.2 and 2.5</li> <li>• Minor wording change to PC 3.1, 3.3 and 3.4</li> <li>• New description provided for Foundation Skills</li> </ul>

		<ul style="list-style-type: none"> <li>• Redrafted Assessment Conditions</li> </ul>
FWPFGM2205 Prune trees	FWPFGM2XXX Prune trees	<ul style="list-style-type: none"> <li>• Minor change to Application Statement clarifying scope of work and where work is conducted</li> <li>• Revised PC structure for Element 1 to reflect scope of work involved in preparing for tree pruning</li> <li>• Minor wording change to PC 2.1-2.3</li> <li>• Minor wording change to PC 3.1 - 3.3</li> <li>• New description provided for Foundation Skills</li> <li>• Minor wording change to Performance and Knowledge Evidence</li> <li>• Redrafted Assessment Conditions</li> </ul>
FWPFGM2206 Collect data or samples for assessment	FWPFGM2XXX Collect forest data or samples for assessment and analysis	<ul style="list-style-type: none"> <li>• Minor title change</li> <li>• Minor change to Application Statement clarifying scope of work and where work is conducted</li> <li>• Revised PC structure for Element 1 to reflect scope of work involved in preparing for data or sample collection</li> <li>• Change to Element 2 to PC 2.1-2.8 to clarify work task and incorporate use of digital technologies</li> <li>• Minor wording change to PC 3.1 - 3.3</li> <li>• New description provided for Foundation Skills</li> <li>• Reworded Performance Evidence</li> <li>• Knowledge Evidence amended to include cultural heritage and new technologies for data collection i.e., drones</li> <li>• Redrafted Assessment Conditions</li> </ul>
FWPFGM2207 Undertake brush cutting operations	FWPFGM2XXX Operate brush cutter	<ul style="list-style-type: none"> <li>• Minor title change</li> <li>• Minor change to Application Statement clarifying scope of work and where work is conducted</li> <li>• Revised PC structure for Element 1 to reflect scope of work involved in preparing for brush cutting operations</li> <li>• Minor editing to PCs 2.1, 2.6, 3.1 and 3.4</li> <li>• New description provided for Foundation Skills</li> <li>• Minor wording changes to Performance Evidence</li> <li>• Knowledge Evidence amended to include safe fuel use, types, mixing ratios and measurement</li> <li>• Redrafted Assessment Conditions</li> </ul>
FWPFGM2215 Measure trees	FWPFGM2XXX Measure trees	<ul style="list-style-type: none"> <li>• Minor change to Application Statement clarifying scope of work and where work is conducted</li> <li>• Revised PC structure for Element 1 to clarify work tasks associated with preparing for measuring trees</li> <li>• Added new PCs 2.1-2.7 to clarify tree measurements to be taken</li> <li>• New description provided for Foundation Skills</li> </ul>

		<ul style="list-style-type: none"> <li>• Reworded Performance Evidence</li> <li>• Minor change to Knowledge Evidence to add purpose of measuring, units of measurements and digital measuring equipment</li> <li>• Redrafted Assessment Conditions</li> </ul>
FWPCOT2220 Select trees for tending operations	FWPCOT2XXX Select and mark trees for tending operations	<ul style="list-style-type: none"> <li>• Reworded title</li> <li>• Minor change to Application Statement clarifying scope of work and where work is conducted</li> <li>• Revised PC structure for Element 1 to reflect scope of work involved in preparing for work</li> <li>• Minor wording change to PC 2.5</li> <li>• New description provided for Foundation Skills</li> <li>• Redrafted Assessment Conditions</li> </ul>
FWPHAR3233 Use mechanised equipment for forestry site preparation on steep slopes	FWPHAR3XXX Use mechanised equipment for forestry site preparation	<ul style="list-style-type: none"> <li>• Reworded title</li> <li>• Minor edits to Performance Criteria</li> <li>• <b>New Performance Evidence to allow for using up to two different types of machines and appropriate attachments for two forestry site preparation activities/techniques from a given list, on flat or steep terrain.</b></li> </ul>
FWPCOT3255 Apply silvicultural principles	FWPCOT3XXX Apply sustainable silviculture methods and techniques	<ul style="list-style-type: none"> <li>• Change to title to better align title with Elements and Performance Criteria</li> <li>• Minor change to Application Statement to clarify where work is conducted</li> <li>• New PCs for Element 1 to more fully describe skills required to prepare for silviculture work</li> <li>• Minor wording changes to PC 2.4</li> <li>• Minor wording changes to PC 3.2 and 3.4 to emphasis sustainable work practices</li> <li>• Minor editorial changes to PCs 4.1, 4.2 and 5.1</li> <li>• New description provided for Foundation Skills</li> <li>• Minor changes to Performance Evidence</li> <li>• Changes to Knowledge Evidence to clarify requirements and provide more contemporary statement on principles of sustainable forestry</li> <li>• Redrafted Assessment Conditions</li> </ul>
<b>Units updated to correct the alignment of the job task with the AQF level</b>		
FWPFGM2202 Prepare seedbed	FWPFGM4XXX Plan for and coordinate forest site preparation operations	<ul style="list-style-type: none"> <li>• New title</li> <li>• Updated Application Statement to increase focus on planning and coordination of forest site preparation activities</li> <li>• Updated Elements and added new Performance Criteria</li> <li>• Updated and added new Knowledge and Performance Evidence</li> <li>• Updated Foundation Skills</li> <li>• Updated Assessment Conditions</li> </ul>
FWPFGM2204 Plant trees mechanically	FWPFGM3XXX Plant trees mechanically	<ul style="list-style-type: none"> <li>• Minor change to Application Statement clarifying scope of work and where work is conducted</li> </ul>

		<ul style="list-style-type: none"> <li>• Revised PC structure for Element 1 to reflect scope of work involved in preparing for tree planting</li> <li>• Minor wording change to PC 2.1 - 2.2 and 2.4</li> <li>• Minor wording change to PC 3.1 - 3.4</li> <li>• New description provided for Foundation Skills</li> <li>• Redrafted Assessment Conditions</li> </ul>
FWPFGM3206 Plan and implement non-commercial thinning operations	FWPFGM4XXX Plan for and coordinate thinning operations in a native forest or plantation	<ul style="list-style-type: none"> <li>• Minor change to Application Statement clarifying scope of work to focus on planning, coordinating the implementation of and monitoring thinning operations in a forest or plantation</li> <li>• Revised PCs 2.1-2.6 to clarify work task associated with planning thinning operations</li> <li>• Revised Element 3 and PCs 3.1-3.7 to clarify work task associated with coordinating the implementation of and monitoring thinning operations</li> <li>• Minor wording change to Element 4 and PCs 4.1-4.4 to clarify work task associated with reviewing and reporting on outcomes of thinning operations</li> <li>• New description provided for Foundation Skills</li> <li>• Performance Evidence redrafted regarding the volume of evidence</li> <li>• Knowledge Evidence amended to include measurements relevant to thinning operations, safe chemical use, monitoring points, purpose of thinning operations</li> <li>• Redrafted Assessment Conditions</li> </ul>
FWPFGM3207 Coordinate stem improvement	FWPFGM4XXX Plan for and coordinate stem improvement operations	<ul style="list-style-type: none"> <li>• Reworded Unit Title</li> <li>• Minor change to Application Statement clarifying that work involves planning, coordinating and monitoring the implementation of stem improvement activities</li> <li>• Minor wording change to Element 2 and PCs 2.1-2.3 and 2.5-2.6 to clarify work task associated with planning stem improvement operations</li> <li>• Minor wording change to Element 3 and PCs 3.1 and 3.4 to clarify work task associated with coordinating implementation of stem improvement operations</li> <li>• Minor wording change to PCs 4.1-4.4 to clarify work task associated with reviewing stem improvement operations</li> <li>• New description provided for Foundation Skills</li> <li>• Performance Evidence redrafted to comply with Standards for Training Packages regarding the volume of evidence</li> <li>• Knowledge Evidence amended to include stem improvement methods, working safely at heights, safe chemical use, purpose of stem improvement</li> </ul>

		<ul style="list-style-type: none"> <li>• Redrafted Assessment Conditions statement to comply with Standards for Training Packages</li> <li>• Redrafted Assessment Conditions</li> </ul>
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### Timber Harvesting Operations - revised units

Three existing units of competency covering timber harvesting operations have been reviewed and updated. The changes are minor revisions to improve the work task description and meet the requirements of Standards for Training Packages.

Two of the timber harvesting units reviewed as part of the High Level Forestry Skills Project have been moved from Certificate IV to Certificate III to correct the alignment of the work task with the AQF level. These units are listed below.

Current unit code and name	Revised unit code and name	Proposed changes/rationale
FWPCOR3204 Visually assess materials	FWPCOR3XXX Assess materials visually	<ul style="list-style-type: none"> <li>• Minor change to Application Statement clarifying scope of work and where work is conducted</li> <li>• Revised PC structure for Element 1 to reflect scope of work involved in preparing for work</li> <li>• Minor wording changes to PCs 2.1-2.3 to clarify scope of work</li> <li>• Minor wording changes to PCs 3.1 – 3.4 to clarify scope of work</li> <li>• New description provided for Foundation Skills</li> <li>• Updated Performance Evidence regarding the volume of evidence</li> <li>• Minor wording changes to Knowledge Evidence to clarify requirements</li> <li>• Redrafted Assessment Conditions</li> </ul>
FWPHAR3210 Conduct mechanical processor operations	FWPHAR3XXX Conduct mechanical processor operations	<ul style="list-style-type: none"> <li>• Minor change to Application statement clarifying where work is conducted</li> <li>• Revised PC structure for Element 1 to describe work tasks for preparing for processor operations</li> <li>• Minor wording changes to PCs 2.1, 2.2, 3.4, 4.1, 4.3, 5.1, 5.2, 5.4, 5.6</li> <li>• Updated Foundation Skills; Minor change to Numeracy</li> <li>• Redrafted Assessment Conditions</li> </ul>
FWPHAR3213 Conduct mechanically assisted tree falling operations	FWPHAR3XXX Conduct mechanically assisted tree falling operations	<ul style="list-style-type: none"> <li>• Revised PC structure for Element 1 to describe work tasks for preparing for tree pushing and pulling operations</li> <li>• Minor wording changes to PCs 2.4, 3.1, 3.3, 3.4, 3.5, 3.9, 3.10, 4.1, 4.4, 4.5, 4.6</li> <li>• New descriptions for Foundation Skills</li> <li>• Updated Knowledge Evidence to align with Performance criteria</li> <li>• Redrafted Assessment Conditions</li> </ul>
<b>Units moved from Certificate IV to Certificate III to correct the alignment of the work task with the AQF level</b>		
FWPHAR4201 Apply tree jacking techniques	FWPHAR3XXX Plan for and apply tree jacking techniques in felling trees	<ul style="list-style-type: none"> <li>• Revised Title</li> <li>• Minor change to Application statement clarifying scope of work</li> <li>• Revised PCs 1-1 – 1.9 to clarify work task</li> </ul>

		<ul style="list-style-type: none"> <li>• Revised Element 2 to clarify work task</li> <li>• Revised PCs 3.2, 3.3, 3.4, 3.6 and 3.7 to clarify work task</li> <li>• Revised Element 4 and PCs 4.1, 4.3 and 4.6 to clarify work task</li> <li>• Revised Foundation Skills</li> <li>• Performance Evidence redrafted to comply with Standards for Training Packages regarding the volume of evidence</li> <li>• Minor changes to Knowledge Evidence</li> <li>• Redrafted Assessment Conditions statement to comply with Standards for Training Packages</li> </ul>
FWPHAR4202 Coordinate log recovery (hook tender)	FWPHAR3XXX Coordinate log recovery (hook tender)	<ul style="list-style-type: none"> <li>• Revised PCs 1-1 – 1.8 to clarify work task</li> <li>• Minor changes to PCs 5.2, 5.3, 5.5 and 5.6 to comply with style requirements</li> <li>• Updated Foundation Skills</li> <li>• Redrafted Performance Evidence</li> <li>• Redrafted Assessment Conditions</li> </ul>

### Fire Control - revised units

Three exiting units of competency covering fire prevention procedure, fire risk assessment and fire detection have been reviewed and updated. Applied changes are minor revisions to improve the work task description and meet the requirements of Standards for Training Packages.

The unit *FWPCOR2XXX Follow fire prevention procedures* has also been updated to include skill requirements for fire weather monitoring and fire weather risks on forestry operations.

Current unit code and name	Revised unit code and name	Proposed changes/rationale
FWPCOR2204 Follow fire prevention procedures	FWPCOR2XXX Follow fire prevention procedures	<ul style="list-style-type: none"> <li>• Minor change to Application statement to clarifying scope of work and where work is conducted</li> <li>• Minor wording changes to Element 1 (Prepare to prevent fire) and PCs 1.1-1.6 to clarify work tasks</li> <li>• <b>Added new PC 1.7 and KE to include fire weather monitoring and risks on forestry operations</b></li> <li>• Minor wording changes to Element 2 (Implement fire prevention practices) and redrafting of PCs 2.1-2.9 to clarify scope of preventative activities.</li> <li>• New description provided for Foundation Skills</li> <li>• Reworded Performance Evidence</li> <li>• Minor wording changes to Knowledge Evidence to clarify requirements</li> <li>• Redrafted Assessment Conditions</li> </ul>
FWPFGM2211 Detect fire	FWPFGM2XXX Detect fire in a native forest or plantation	<ul style="list-style-type: none"> <li>• Title change</li> <li>• Minor change to Application statement clarifying scope of work and where work is conducted</li> <li>• Revised PC structure for Element 1 to clarify work task and incorporate use of digital equipment</li> <li>• Minor editing to PCs 2.1- 2.4 to clarify work task and incorporate smoke characteristics</li> </ul>

		<ul style="list-style-type: none"> <li>• Minor editing to PCs 3.1- 3.3 to clarify work task and incorporate use of mobile communications</li> <li>• New description provided for Foundation Skills</li> <li>• Redrafted Performance Evidence redrafted regarding the volume of evidence</li> <li>• Minor change to Knowledge Evidence to align with PCs and include information on fire weather data, sightings details and sources of specialist advice</li> <li>• Redrafted Assessment Conditions</li> </ul>
FWPCOR3203 Evaluate fire potential and prevention	FWPCOR3XXX Assess fire risk	<ul style="list-style-type: none"> <li>• Change to title</li> <li>• Minor change to Application statement clarifying where work is conducted</li> <li>• Revised PC structure for Element 1 to reflect scope of work involved in preparing for work</li> <li>• Minor wording changes to PCs 2.2-2.4 to clarify scope of work</li> <li>• Minor wording changes to PCs 3.1 – 3.2 to clarify scope of work</li> <li>• New description provided for Foundation Skills</li> <li>• Redrafted Performance Evidence regarding the volume of evidence</li> <li>• Minor wording changes to Knowledge Evidence to clarify requirements</li> <li>• Redrafted Assessment Conditions</li> </ul>

#### Other Forestry Operations - revised units

One exiting unit of competency covering mobile hydraulic log splitter has been reviewed and updated. Applied changes are minor revisions to improve the work task description and meet the requirements of Standards for Training Packages.

Current unit code and name	Revised unit code and name	Proposed changes/rationale
FWPHAR2205 Conduct mobile splitting operations	FWPHAR2XXX Operate a mobile hydraulic log splitter	<ul style="list-style-type: none"> <li>• Title change</li> <li>• Minor change to Application Statement clarifying where work is conducted</li> <li>• Revised PC structure for Element 1 to reflect scope of work involved in preparing for splitting</li> <li>• Minor changes to PCs 2,6, 2.7</li> <li>• Revised PCs for Element 3 to clarify tasks involved in machine operator maintenance</li> <li>• New description provided for Foundation Skills</li> <li>• Reworded Performance Evidence</li> <li>• Revised Knowledge Evidence to include safe fuel use, operation of mobile hydraulic splitters and fuel types</li> <li>• Redrafted Assessment Conditions</li> </ul>

#### Four Wheel Drive Operations - revised units

Four exiting units of competency covering four wheel drive operations have been reviewed and updated to clarify work tasks, include new elements to describe performance not previously covered,



such as using four wheel drive vehicle to tow an object other than a trailer or operating vehicle in steep and difficult terrain, and strengthen the Performance and Knowledge Evidence.

<b>Current unit code and name</b>	<b>Revised unit code and name</b>	<b>Proposed changes/rationale</b>
<p>FWPFGM3214 Operate a four wheel drive in a towing situation</p>	<p>FWPCOT3XXX Operate four wheel drive vehicle in a towing situation</p>	<ul style="list-style-type: none"> <li>• Minor wording change to Application statement</li> <li>• Revised Element 1 (Prepare for towing) and PCs 1.1-1.8 to clarify work tasks</li> <li>• New Element 2 (Use four wheel drive vehicle to tow a trailer) and associated PCs to focus on towing a trailer rather than driving.</li> <li>• New Element 3 (Use four wheel drive vehicle to tow an object other than a trailer) and associated PCs to focus on towing a trailer rather than driving</li> <li>• Revised Element 4 (Perform post-towing tasks) and associated PCs 4.1-4.2 to clarify work task</li> <li>• New description provided for Foundation Skills</li> <li>• Performance Evidence redrafted to comply with Standards for Training Packages regarding the volume of evidence</li> <li>• Additions to Knowledge Evidence to clarify requirements for individuals to hold knowledge of safety requirements for towing an object that is not a trailer to avoid damage to towing equipment and four wheel driving and towing techniques</li> <li>• Redrafted Assessment Conditions statement to comply with Standards for Training Packages</li> </ul>
<p>FWPFGM3215 Perform complex 4x4 operations</p>	<p>FWPCOT3XXX Perform complex four wheel drive operations</p>	<ul style="list-style-type: none"> <li>• Revised Title</li> <li>• Minor change to Application statement to clarify terrain conditions that apply to four wheel drive operations and include advice that individuals seeking recognition of this unit should have prior experience in operating four wheel drive vehicles on unsealed surfaces</li> <li>• Revised Element 1(Prepare for complex four wheel drive operations) and PCs 1.1-1.7 to clarify work tasks</li> <li>• New Element 2 (Operate vehicle in steep terrain) and associated PCs to describe performance required to operate vehicle in steep terrain.</li> <li>• New Element 3 (Operate vehicle over difficult terrain) and associated PCs to describe performance required to operate vehicle over difficult terrain.</li> <li>• New Element 4 (Operate vehicle through water crossing) and associated PCs to consolidate skills described in three elements in the current version of the unit and to more accurately describe the skills required to negotiate water crossings</li> <li>• Revised Element 5(Perform post trip tasks) and PCs 5.1-5.3 to clarify work tasks</li> <li>• New description provided for Foundation Skills</li> </ul>

		<ul style="list-style-type: none"> <li>• Performance Evidence redrafted to comply with Standards for Training Packages regarding the volume of evidence</li> <li>• Additions to Knowledge Evidence to clarify requirements for individuals to hold knowledge of four wheel drive systems and procedures for performing a range of fundamental 4 wheel driving operations – these are included in subheading ‘Procedures for’</li> <li>• Redrafted Assessment Conditions statement to comply with Standards for Training Packages</li> </ul>
FWPCOT3259 Operate a four wheel drive on unsealed roads	FWPCOT3XXX Operate four wheel drive vehicle on unsealed terrain types	<ul style="list-style-type: none"> <li>• Minor wording change to Application statement</li> <li>• New Element 1 (Identify differences between four wheel drive and two wheel drive vehicles) and associated PCs</li> <li>• Revised Element 2 (Identify differences between four wheel drive and two wheel drive vehicles) and associated PCs to replace former Elements 2 and 3 to clarify work task.</li> <li>• New Element 3 (Operate vehicle on unsealed roads) and associated PCs to replace former Element 4 to clarify work task.</li> <li>• New Element 4 (Ascend and descend slopes less than 15 degrees) and associated PCs replace former Element 5 to define to slope on which four wheel drive is operated and clarify scope of work task</li> <li>• Revised Element 5 (Complete operation) and associated PCs to clarify work tasks</li> <li>• New description provided for Foundation Skills</li> <li>• Performance Evidence redrafted to comply with Standards for Training Packages regarding the volume of evidence</li> <li>• Additions to Knowledge Evidence to clarify requirements for individuals to hold knowledge of common unsealed road surface hazards, cornering techniques and braking techniques</li> <li>• Redrafted Assessment Conditions statement to comply with Standards for Training Packages</li> </ul>
FWPCOT3260 Recover four wheel drive vehicles	FWPCOT3XXX Recover four wheel drive vehicle	<ul style="list-style-type: none"> <li>• Minor wording change to Application statement</li> <li>• New Element 1 (Identify loads, ratings and equipment serviceability related to four wheel vehicle recovery) and associated PCs</li> <li>• New Element 2 (Plan recovery) and associated PCs to replace former Element 1 and provide fuller description of work task.</li> <li>• New Element 3 (Perform kinetic rope or strap recovery) and associated PCs.</li> <li>• New Element 4 (Perform winch recovery) and associated PCs 4.1-4.2</li> <li>• New Element 5 (Use other recovery tools and equipment) and associated PCs 4.1-4.2</li> <li>• Renumbered Element 6 (Maintain vehicle recovery equipment) to replace former</li> </ul>

		<p>Element 5 – minor wording changes to PCs 6.1-6.</p> <ul style="list-style-type: none"> <li>• New description provided for Foundation Skills</li> <li>• Performance Evidence redrafted to comply with Standards for Training Packages regarding the volume of evidence</li> <li>• Redrafted Assessment Conditions statement to comply with Standards for Training Packages</li> </ul>
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### Other Unit Revised

The following unit of competency has been removed from the forestry qualifications as it is irrelevant or not applicable to the entry-level and operator skills in forestry operations. However, the unit has been revised and will remain available in the timber processing and manufacturing qualifications.

Unit code and name	Revised unit code and name	Rationale
FWPCOT3263 Maintain and contribute to energy efficiency	FWPCOT3XXX Contribute to energy efficiency in the workplace	<ul style="list-style-type: none"> <li>• Reworded title</li> <li>• Minor change to Application Statement clarifying where work is conducted</li> <li>• Minor wording change to Element 1 to improve alignment with PCs 1.1-1.3</li> <li>• Minor wording changes to PCs 1.1-1.3 to clarify scope of work</li> <li>• Minor wording change to Element 2 and PCs 2.1-2.3 to clarify scope of work</li> <li>• Minor wording changes to Element 3 and PCs 3.1-3.3 to clarify scope of work</li> <li>• New description provided for Foundation Skills</li> <li>• Performance Evidence redrafted to comply with Standards for Training Packages regarding the volume of evidence</li> <li>• Minor changes to Knowledge Evidence to clarify requirements</li> <li>• Redrafted Assessment Conditions</li> </ul>

### Units proposed for deletion

Five units of competency are proposed for deletion due to no enrolments during the last three years. Industry feedback also suggests that the work tasks covered by these units are not applicable or relevant to the entry-level and operator skills in forestry operations.

Unit code and name	Link to the unit
FWPCOT3222 Present forestry information and interpretations programs	View unit <a href="#">here</a> .
FWPFGM2214 Maintain visitor sites	View unit <a href="#">here</a> .
FWPFGM3203 Conduct an instrument survey	View unit <a href="#">here</a> .
FWPFGM3210 Patrol forest	View unit <a href="#">here</a> .
FWPFGM3211 Manage coppice stems	View unit <a href="#">here</a> .

Please email to Georgiana Daian [gdaian@forestworks.com.au](mailto:gdaian@forestworks.com.au) if any of these units should be retained in the forest operations qualifications.