

New Timber Harvesting Technologies Project



Summary of Changes Document

January 2020

Technology has always been a key driver of change in the forest industry. New technology and machinery, such as drones and remote sensing systems, in-field technologies and optimisation equipment are supporting the industry to be more productive, environmentally sustainable and safer. As a result many job roles require higher levels of technical and digital skills than before. It's important these developments are reflected in nationally endorsed qualifications and skills standards to ensure industry can keep up with high demand for timber, a competitive market, and regulatory requirements.

Five new units of competency and twenty-four revised units for new harvesting technologies and forestry operations have been drafted in consultation with Subject Matter Experts.

They are available for comment and feedback on the [Skills Impact website](#) until 28 February 2020.

We are seeking your feedback on whether the draft units reflect current industry practice, and whether job functions are accurately described.

Five draft new units have been developed to support skills development in the following areas:

- Digital technology
- Winch-assisted harvesting
- Mechanised forestry site preparation on steep slopes
- Use of a chainsaw off the ground

Twenty four revised units have been developed to support skills development in the following areas:

- Cable logging
- Environmental care (forestry operations)
- Transport of logs
- Tree felling /chainsaw operations
- Wood chipping

The revised units have been updated to:

- Incorporated industry feedback about work tasks in cable logging units
- Improve the overall quality of the units for environmental care operations, particularly the description of the work task and compliance with Standards for Training Package
- Incorporate the skill requirements in the Draft Log Haulage Code of Practice into the unit for the transport of logs
- Improve the relevance of the tree felling units to the full range of users, provide for progressing the development of tree felling skills safely through a relevant prerequisite unit, and include clear benchmarks for the assessment of competency
- Improve the relevance of the existing wood chipping unit to both forestry and urban arboriculture users
- Redevelop an existing wood chipping unit into two new units to provide for specific skills related to in-field wood chipping equipment.

A full list of the new and revised units is available in the unit sections below.

In addition, we are also seeking your views on the need to maintain or delete four units of competency from the FWP Training Package. See the section named 'Units Proposed for Deletion'.

Proposed New Units

Five new units of competency have been developed to support the current and emerging skill needs in relation to a range of digital and mechanised forest management and harvesting technologies and processes for forest management and harvesting operations.

Digital technology

- FWPCOT3XXX Access, capture and communicate forestry field data using mobile devices
- FWPHAR3XXX Read and interpret digital maps and forest operation plans

Winch-assisted harvesting

- FWPHAR3XXX Operate harvesting machine with winch-assist system

Mechanised forestry site preparation on steep slopes

- FWPHAR3XXX Use mechanised equipment for forestry site preparation on steep slopes

Use of a chainsaw off ground

- FWPCOT3XXX Use chainsaw off ground

Revised Units

Twenty-four existing units of competency have been revised to meet current skill needs and compliance with the standards for training packages. Common changes across the units include updates to the workplace health and safety requirements and foundation skills, revised application statements to clarify the intent of the unit and other minor edits for improving the clarity of statements. The summary of changes applied to the units is outlined below.

Cable logging

The cable logging units have been updated to address previous and further feedback. This review resulted in a set of new performance criteria and elements to clarify work tasks.

Current unit code and name	New unit code and name	Proposed changes
FWPHAR2203 Hook up felled logs using cables (choker)	FWPHAR2XXX Hook up felled logs using cables (choker)	Minor <ul style="list-style-type: none"> • Title amended - words 'using cable' deleted • Minor change to Application statement clarifying where work is conducted • New PCs for Element 1 (Prepare for choker setter operations) to clarify work tasks regarding workplace health and safety and environmental protection procedures and maintain consistency across units of competency • Minor wording changes to PC 1.2, 1.3 and 1.4 in Element 1 (Prepare for choker setter operations) to clarify the work task • PC 3.5 deleted, regarding removing obstructions that may cause damage during hauling • New description provided for Foundation Skills

		<ul style="list-style-type: none"> • Performance Evidence redrafted to comply with Standards for Training Packages regarding the volume of evidence • Minor changes to Knowledge Evidence to include rigging components • Redrafted Assessment Conditions statement to comply with Standards for Training Packages
FWPHAR2204 Perform landing duties (chaser)	FWPHAR2XXX Perform landing duties (chaser)	<p>Minor</p> <ul style="list-style-type: none"> • Minor change to Application statement clarifying where work is conducted • New PCs for Element 1 (Prepare for chaser operations) to clarify work tasks regarding workplace health and safety and environmental protection procedures and maintain consistency across units of competency • Minor wording changes to PC 1.2, 1.3 and 1.4 in Element 1 (Prepare for chaser operations) to clarify the work task • Minor wording changes to PC 2.2, 2.3, 2.4, 2.5, 2.7 to clarify the work task • PC 2.6 reworded to clarify work task • Element 3 (Assist with line shifts) deleted and outcomes incorporated into Element 2 (Land and unhook logs) PC 2.8 more broadly • New description provided for Foundation Skills • Performance Evidence redrafted to comply with Standards for Training Packages regarding the volume of evidence • Redrafted Assessment Conditions statement to comply with Standards for Training Packages
FWPHAR3201 Monitor log recovery (rigging slinger)	FWPHAR3XXX Monitor log recovery (rigging slinger)	<p>Minor</p> <ul style="list-style-type: none"> • Minor change to Application statement clarifying where work is conducted • New PCs for Element 1 (Prepare for rigging slinger operations) to clarify work tasks regarding workplace health and safety and environmental protection procedures and maintain consistency across units of competency • Minor wording changes to PC 1.2, 1.3 and 1.4 in Element 1 (Prepare for rigging slinger operations) to clarify the work task • PC 2.3 deleted about site and equipment assessment and renumbered other PCs in this Element 2 (Plan breakout) • Minor change to PC 3.4 to clarify that people are out of bight of ropes • Minor changes to PC 4.2, 4.4, and 4.5 to indicate that PCs only apply when required • New description provided for Foundation Skills • Performance Evidence redrafted to comply with Standards for Training Packages regarding the volume of evidence • Minor wording changes to Knowledge Evidence to clarify requirements • Redrafted Assessment Conditions statement to comply with Standards for Training Packages

FWPHAR3231 Operate yarder	FWPHAR3XXX Operate yarder	<p>Minor</p> <ul style="list-style-type: none"> • Minor change to Application statement clarifying where work is conducted • New PCs for Element 1 (Plan and prepare to operate a yarder) – PCs 1.1, 1.3, 1.5, 1.6 and 1.7 - to clarify work tasks regarding workplace health and safety and environmental protection procedures and maintain consistency across units of competency • New description provided for Foundation Skills – Learning and Oral Communications • Performance Evidence redrafted to comply with Standards for Training Packages regarding the volume of evidence • Minor changes to Assessment Conditions statement to comply with Standards for Training Packages
------------------------------	------------------------------	---

Environmental care (forestry operations)

The units of competency for environmental care have been revised to improve their overall quality, particularly in relation to the description of the work task and compliance with Standards for Training Package.

Current unit code and name	New unit code and name	Proposed changes
FWPFGM2210 Implement animal pest control procedures	FWPFGM2XXX Implement animal pest control procedures	<p>Minor</p> <ul style="list-style-type: none"> • New and revised PCs in Element 1 (Prepare to control pests), PCs 1.1-1.6,1.8, to clarify work tasks regarding workplace health and safety and environmental protection procedures and maintain consistency across units of competency • Minor change to Application statement to include plantations in work settings • New descriptions provided for Foundation Skills • Performance Evidence redrafted to comply with Standards for Training Packages regarding volume of evidence • Assessment Conditions statement redrafted to comply with Standards for Training Packages
FWPFGM3209 Construct and maintain forest roads and tracks	FWPFGM3XXX Construct and maintain forest roads and tracks	<p>Major</p> <ul style="list-style-type: none"> • New Element 1 (Prepare for Work) and PCs 1.1 – 1.7 that creates new requirements including review of work instructions, workplace health and safety and environmental protection procedures, communication with team members and preparation of tools and equipment for work <p>Minor</p> <ul style="list-style-type: none"> • Minor changes to PC 3.4 and 3.6 regarding work task and requirements to install fish ladders and armour outlets if required and follow engineering designs • New descriptions provided for Foundation Skills • Performance Evidence redrafted to comply with Standards for Training Packages regarding volume of evidence

		<ul style="list-style-type: none"> • Minor changes to Knowledge Evidence including a new item about environmental values to be protected • Assessment Conditions statement redrafted to comply with Standards for Training Packages
FWPCOT3221 Rehabilitate tracks, quarries and landings	FWPCOT3XXX Rehabilitate tracks, quarries and landings	<p>Minor</p> <ul style="list-style-type: none"> • Element 1 amended to read Prepare for rehabilitation operations • New and edited PCs in Element 1 (Prepare for rehabilitation operations), PCs 1.1-1.8, to clarify work tasks regarding workplace health and safety and environmental protection procedures and maintain consistency across units of competency • Removed reference to carrying out of revegetation works in PC 3.6 and adjusted other PCs in Element 3 (Implement repairs to tracks, quarries and landings) • New descriptions provided for Foundation Skills • Performance Evidence redrafted to comply with Standards for Training Packages regarding volume of evidence • Inserted new Knowledge Evidence – factors to consider in rehabilitation operations and rehabilitation techniques • Assessment Conditions statement redrafted to comply with Standards for Training Packages
FWPCOT3252 Use environmental care procedures to undertake fire salvage operations	FWPCOT3XXX Use environmental care procedures to undertake fire salvage operations	<p>Minor</p> <ul style="list-style-type: none"> • Merged elements 1 and 2 to form a new Element 1 (Prepare for fire salvage operations) and PCs (PC 1.1 – 1.10) to clarify work preparation tasks work in relation to workplace health and safety and environmental protection procedures and maintain consistency across units of competency • Renumbered subsequent elements and PCs • New descriptions provided for Foundation Skills • Performance Evidence redrafted to comply with Standards for Training Packages regarding volume of evidence • Minor changes to Knowledge Evidence • Assessment Conditions statement redrafted to comply with Standards for Training Packages
FWPCOT3254 Implement environmentally sustainable work practices in the work area/work site	FWPCOT3XXX Implement environmentally sustainable work practices in the work area/work site	<p>Minor</p> <ul style="list-style-type: none"> • Redrafted Application statement to clarify that the unit cover skills to assess the environmental sustainability and efficiency of existing workplace practices, identify opportunities for improvement, develop and implement environmental sustainability and resource efficiency improvement plans, and monitor the impact of environmental sustainability and resource efficiency measures • Element 1 – title edited to read Examine environmental sustainability of current work practices; and, minor changes to PCs 1.1-1.4 to clarify intent

		<ul style="list-style-type: none"> • Element 2 – title edited to read Establish an environmental sustainability and resource efficiency improvement plan; and, minor changes to PCs 2.1-2.4 to clarify intent • Element 3 – title edited to read Implement environmental sustainability and resource efficiency improvement plan; and, and minor changes to PCs 3.1-3.3 to clarify intent • Editing of PCs 4.1-4.2 in Element 4 (Monitor performance) to indicate reference to environmental sustainability and resource efficiency • New descriptions provided for Foundation Skills • Performance Evidence redrafted to comply with Standards for Training Packages regarding volume of evidence • New Knowledge Evidence - source information on systems and tools for assessing environmental sustainability • Assessment Conditions statement redrafted to comply with Standards for Training Packages
FWPCOT3256 Apply biodiversity protection principles	FWPCOT3XXX Apply biodiversity protection principles	<p>Minor</p> <ul style="list-style-type: none"> • Minor change to Application statement clarifying where work is conducted • New PCs for Element 1, PCs 1.1 – 1.7, to clarify work preparation tasks in relation to workplace health and safety and environmental protection procedures, communication with team members and preparation of tools and equipment for work. The change aims also to maintain consistency across units of competency • Element 2 (Implement biodiversity protection principles) – editing of PCs 2.1, 2.3, 2.5 to clarify intent by adding reference to plant and animal communities • Element 3 – title edited to read Monitor work practices for compliance with biodiversity protection principles; and, minor changes to PCs 3.1- 3.5 to clarify intent particularly adding requirement to make recommendations on ways of adjusting work practices • New descriptions provided for Foundation Skills • Performance Evidence redrafted to comply with Standards for Training Packages regarding volume of evidence • Assessment Conditions statement redrafted to comply with Standards for Training Packages
FWPCOT3258 Comply with soil and water protection	FWPCOT3XXX Comply with soil and water protection	<p>Minor</p> <ul style="list-style-type: none"> • Redrafted Application statement to clarify that the unit covers skills to carry out soil erosion and sediment control works and pollution prevention measures • New PCs for Element 1 (Prepare for work), PCs 1.1 – 1.7, to clarify work preparation tasks in relation to workplace health and safety and environmental protection procedures, communication with team members and

		<p>preparation of tools and equipment for work. The change aims also to maintain consistency across units of competency</p> <ul style="list-style-type: none"> • Element 2 (Conduct erosion and other pollutant control measures) – minor edits to PCs 2.1 and addition of PC 2.5 from Element 4. • Element 4 (Maintain records) deleted • Element 3 – redraft title (it now reads Monitor work practices that impact on soil and water conditions) and editing of PCs 3.1- 3.5 to clarify intent, particularly about making recommendations on ways of adjusting work practices • New descriptions provided for Foundation Skills • Performance Evidence redrafted to comply with Standards for Training Packages regarding volume of evidence • Minor addition to Knowledge Evidence at point 5 regarding soil types • Assessment Conditions statement redrafted to comply with Standards for Training Packages
--	--	--

Transport of logs

The unit for the transport of logs have been updated to incorporate the skills requirements outlined by the Draft Log Haulage Code of Practice

Current unit code and name	New unit code and name	Proposed changes
FWPCOT3261 Transport forestry logs using trucks	FWPCOT3XXX Transport forestry logs using trucks	<p>Major</p> <ul style="list-style-type: none"> • New PCs in Element 1 (Prepare to transport logs), 2 (Plan route) and 4 (Secure logs prior to transport) including PC 1.9, 3.3, 3.4, 3.5, 3.6, 3.7, 3.8, 4.3, 4.4 to meet Code of Practice requirements regarding pre-start procedures, remote communication with loader, checks for log placement and permissible weight, load monitoring, use of tensioning systems, debris removal before driving • Changes to PC 1.3, 1.4, 4.1, 6.7 to update the work task and meet Code of Practice requirements • PC 3.3, 3.4, 3.5 deleted • Significant additions to Knowledge Evidence to meet Code of Practice requirements regarding practices for pre-start checks, load construction, load restraint and vehicle stability and control, vehicle features, vehicle monitoring systems and load restraint equipment <p>Minor</p> <ul style="list-style-type: none"> • New PCs for Element 1 (Prepare to transport logs) to clarify work tasks regarding workplace health and safety and environmental protection procedures and maintain consistency across units of competency

		<ul style="list-style-type: none"> • Change to Application Statement clarifying that transporting logs requires a license and compliance with State regulatory regimes. • Foundation Skills redrafted • Performance Evidence redrafted to comply with Standards for Training Packages regarding volume of evidence • Redrafted Assessment Conditions statement to comply with Standards for Training Packages
FWPCOT3262 Transport forestry produce using trucks	FWPCOT3XXX Transport forestry produce using trucks	<p>Major</p> <ul style="list-style-type: none"> • New PCs in Element 1 (Prepare to transport forestry produce), including PC 1.5, 1.6, 1.8, 1.9, that add work task requirements regarding communication with team members, identification of forestry site, participation in audits of loads and pre-start and equipment checks <p>Minor</p> <ul style="list-style-type: none"> • Change to Application statement clarifying licencing requirements that transporting logs requires a license and compliance with State regulatory regimes. • New PCs for Element 1 (Prepare to transport logs) to clarify work tasks regarding workplace health and safety and environmental protection procedures and maintain consistency across units of competency • Foundation Skills redrafted • Performance Evidence redrafted to comply with Standards for Training Packages regarding volume of evidence • Redrafted Assessment Conditions statement to comply with Standards for Training Packages

Tree felling /chainsaw operations

The tree felling/chainsaw operations have been revised and updated to improve their relevance to the full range of users, provide for the progressive development of tree felling skills through the addition of a relevant prerequisite unit, and include clear benchmarks for the assessment of competency.

Current unit code and name	New unit code and name	Proposed changes
FWPCOT2236 Fall trees manually (basic)	FWPCOT2XXX Fall trees manually (basic)	<p>Major</p> <ul style="list-style-type: none"> • Addition of prerequisite unit FWPCOT2239 Trim and cut felled trees or equivalent • Performance Evidence redrafted to comply with Standards for Training Packages regarding volume of evidence and addition of clear benchmarks for the assessment of competency about the accuracy of cuts <p>Minor</p> <ul style="list-style-type: none"> • Minor change to Application statement to definition of basic tree and occupations who use the unit

		<ul style="list-style-type: none"> • New and edited PCs for Element 1 (Prepare for felling), PCs 1.1 – 1.7, to clarify work preparation tasks in relation to workplace health and safety and environmental protection procedures, communication with team members and preparation of tools and equipment for work. The change also aims to maintain consistency across units of competency • Redrafted title for Element 2 - it now reads Visually assess site conditions and surroundings • Minor wording changes to performance criteria 2.1, 2.2, 2.3 and 2.4, 3.6, 4.3, 4.4 to clarify requirements regarding falling zone, escape routes, reporting of trees hung-up; and to add reference to current Australian Standards and industry codes of practice • Redrafted title for Element 5 (it now reads Maintain chainsaw and cutting attachments) and minor changes to PCs 5.1, 5.2, 5.3, 5.4, 5.5 to clarify work tasks • New description provided for Foundation Skills - Numeracy • Inclusion of definitions of basic, intermediate and advanced trees, biomechanical defects, fire prevention and safety, environment protection measures, chainsaw use and maintenance in Knowledge Evidence • Redrafted Assessment Conditions statement to comply with Standards for Training Packages
FWPCOT2237 Maintain chainsaws	FWPCOT2XXX Maintain chainsaws	<p>Minor</p> <ul style="list-style-type: none"> • Minor change to Application statement to clarify the unit intent and occupations who use the unit • New and edited PCs for Element 1 (Prepare for chainsaw maintenance), PCs 1.1 – 1.7, to clarify work preparation tasks in relation to workplace health and safety and environmental protection procedures, communication with team members and preparation of tools and equipment for work. The change also aims to maintain consistency across units of competency • Minor changes to PCs in Element 2 (Complete chainsaw maintenance) to meet Skill Impact style requirements • Minor changes to PCs in Element 3 (Complete maintenance records and clean up) to clarify work tasks • New descriptions provided for Foundation Skills • Performance Evidence redrafted to comply with Standards for Training Packages regarding volume of evidence • Inclusion of fuel and electrically powered chainsaws, assessing battery condition, electric shock hazard, burns hazard in Knowledge Evidence • Redrafted Assessment Conditions statement to comply with Standards for Training Packages

<p>FWPCOT2239 Trim and cut felled trees</p>	<p>FWPCOT2XXX Trim and cut felled trees</p>	<p>Major</p> <ul style="list-style-type: none"> • New PCs 2.1 and 2.2 for Element 2 (Visually assess felled trees) to add requirements about inspection of site conditions and reporting environmental conditions to supervisors <p>Minor</p> <ul style="list-style-type: none"> • Minor change to Application statement to clarify occupations who use the unit • New and edited PCs for Element 1 (Prepare for trimming and cutting), PCs 1.1 – 1.7, to clarify work preparation tasks in relation to workplace health and safety and environmental protection procedures, communication with team members and preparation of tools and equipment for work. The change also aims to maintain consistency across units of competency • Minor editorial changes to PCs in Element 3 (Plan cutting) • New descriptions provided for Foundation Skills • Performance Evidence redrafted to comply with Standards for Training Packages regarding volume of evidence • Revised listing of environment protection measures and hazard control measures in Knowledge Evidence to meet both forestry and arboriculture requirements • Redrafted Assessment Conditions statement to comply with Standards for Training Packages
<p>FWPCOT3238 Operate a pole saw</p>	<p>FWPCOT3XXX Operate a pole saw</p>	<p>Minor</p> <ul style="list-style-type: none"> • Change to Application statement to clarify definition of pole saw and occupations who use the unit • New and edited PCs for Element 1 (Prepare for trimming), PCs 1.1 – 1.7, to clarify work preparation tasks in relation to workplace health and safety and environmental protection procedures, communication with team members and preparation of tools and equipment for work. The change also aims to maintain consistency across units of competency • New PC 2.4 regarding identification of hazards and minor editorial changes to other PCs in Element 2 (Assess trees) • Minor changes to PCs in Element 3 (Trim trees) to clarify work tasks, particularly trimming within safe height and angle limits, and meet Skill Impact style requirements • New descriptions provided for Foundation Skills • Performance Evidence redrafted to comply with Standards for Training Packages regarding volume of evidence • Inclusion of types and components of pole saws, uses of pole saws, procedures for pole saw operation, safe height and angle limits, procedure for sharpening and adjusting chains in Knowledge Evidence

		<ul style="list-style-type: none"> • Redrafted Assessment Conditions statement to comply with Standards for Training Packages. • Deleted the words 'with telescoping extension' from pole saw in Assessment Conditions to remove potential barriers to assessment
FWPFGM3212 Fall trees manually (intermediate)	FWPFGM3XXX Fall trees manually (intermediate)	<p>Major</p> <ul style="list-style-type: none"> • Change to Application statement to definition of intermediate tree and occupations who use the unit • Inclusion of prerequisite unit FWPCOT2239 Trim and cut felled trees or equivalent • Redrafted PCs for Element 2 (Visually assess site conditions and surroundings) creating new requirements for inspecting sites, reporting environmental conditions, determining fall zones and implementing risk control measures and monitoring activity of other workers. • New PC 3.7 that create a new requirement for identifying where additional tools or equipment may be used to influence the lean of the tree to meet urban arboriculture requirements • New Element 5 (Maintain chainsaw and cutting attachments) replacing PC 4.8 and 4.9 • Performance Evidence redrafted to comply with Standards for Training Packages regarding volume of evidence and addition of clear benchmarks for the assessment of competency about the accuracy of cuts <p>Minor</p> <ul style="list-style-type: none"> • New and edited PCs for Element 1 (Prepare for felling), PCs 1.1 – 1.7, to clarify work preparation tasks in relation to workplace health and safety and environmental protection procedures, communication with team members and preparation of tools and equipment for work. The change also aims to maintain consistency across units of competency • Minor editorial changes to PCs in Elements 3 (Assess tree and plan felling), 4 (Apply tree-felling techniques) to clarify work tasks about escape routes and compliance with current Australian Standards and industry codes of practice; and, to meet Skill Impact style requirements • New descriptions provided for Foundation Skills • Inclusion of characteristics of intermediate trees, biomechanical defects, chainsaw use and maintenance in Knowledge Evidence • Revised listing of environment protection measures and hazard control measures in Knowledge Evidence to meet both forestry and urban arboriculture requirements • Redrafted Assessment Conditions statement to comply with Standards for Training Packages
FWPFGM3213 Fall trees	FWPFGM3XXX Fall trees manually (advanced)	<p>Major</p> <ul style="list-style-type: none"> • Inclusion of prerequisite unit FWPCOT2239 Trim and cut felled trees or equivalent

manually (advanced)		<ul style="list-style-type: none"> • Redrafted PCs for Element 2 (Visually assess site conditions and surroundings) creating new requirements for inspecting sites, reporting environmental conditions, determining fall zones and implementing risk control measures and monitoring activity of other workers. • Redrafted PCs for Element 2 (Visually assess site conditions and surroundings) create new requirements for assessing and planning sequence of falling and installation of ropes if required. • New Element 5 (Maintain chainsaw and cutting equipment) replacing PC 4.8 and 4.9 <p>Minor</p> <ul style="list-style-type: none"> • Change to Application statement to occupations that use the unit • New and edited PCs for Element 1 (Prepare for felling), PCs 1.1 – 1.7, to clarify work preparation tasks in relation to workplace health and safety and environmental protection procedures, communication with team members and preparation of tools and equipment for work. The change also aims to maintain consistency across units of competency • and preparation of tools and equipment for work. The change also aims to maintain consistency across units of competency • Minor editorial changes to PCs in Element 4 (Apply tree-felling techniques) to clarify work tasks about escape routes and compliance with current Australian Standards and industry codes of practice; and, to meet Skill Impact style requirements • New descriptions provided for Foundation Skills • Performance Evidence redrafted to comply with Standards for Training Packages regarding volume of evidence • Inclusion of characteristics of advanced trees, biomechanical defects, chainsaw use and maintenance in Knowledge Evidence • New listing of environment protection measures and hazard control measures in Knowledge Evidence • Redrafted Assessment Conditions statement to comply with Standards for Training Packages
FWPHAR2207 Trim and cut harvested trees	FWPHAR2XXX Trim and cut harvested trees	<p>Minor</p> <ul style="list-style-type: none"> • Minor change to Application statement to occupations that use the unit • New and edited PCs for Element 1 (Prepare for trimming and cutting), PCs 1.1 – 1.6, to clarify work preparation tasks in relation to workplace health and safety and environmental protection procedures, communication with team members and preparation of tools and equipment for work. The change also aims to maintain consistency across units of competency

		<ul style="list-style-type: none"> • Reworded Element 2 to read Visually assessed trees and PC 2.1 changing the work task from assess tree location and stability to inspect site for conditions likely to affect safe activities • New description provided for Foundation Skills • Performance Evidence redrafted to comply with Standards for Training Packages regarding volume of evidence • Inclusion of optimisation and deletion of varying weather conditions in Knowledge Evidence • Redrafted Assessment Conditions statement to comply with Standards for Training Packages
FWPHAR3220 Harvest trees manually (intermediate)	FWPHAR3XXX Harvest trees manually (intermediate)	<p>Major</p> <ul style="list-style-type: none"> • Change to Application statement to the definition of intermediate tree and occupations who use the unit • Inclusion of prerequisite unit FWPHAR2207 Trim and cut harvested trees or equivalent • New PCs 2.4, 2.5 and 3.1 which create new task requirements to identify method for log extraction, plan tree felling sequence and visually assess tree for felling characteristics • Element 4 deleted (Prepare equipment) • New Element 5 (Maintain chainsaw and cutting attachments) <p>Minor</p> <ul style="list-style-type: none"> • Element 1 reworded to read Prepare for harvesting • New and edited PCs for Element 1 (Prepare for harvesting), PCs 1.1 – 1.9, to clarify work preparation tasks in relation to workplace health and safety and environmental protection procedures, communication with team members and preparation of tools and equipment for work. The change also aims to maintain consistency across units of competency • PC 3.7 and 4.3 updated to clarify the work task in relation to using escape routes • Minor changes to PC 4.1, 4.4 and 4.5 to clarify the work task • New description provided for Foundation Skills • Performance Evidence redrafted to comply with Standards for Training Packages regarding volume of evidence • Inclusion of optimisation and chainsaw types and maintenance in Knowledge Evidence • Redrafted Assessment Conditions statement to comply with Standards for Training Packages
FWPHAR3221 Harvest trees manually (advanced)	FWPHAR3XXX Harvest trees manually (advanced)	<p>Major</p> <ul style="list-style-type: none"> • Change to Application statement to the definition of advance tree and occupations who use the unit • Inclusion of prerequisite unit FWPHAR2207 Trim and cut harvested trees or equivalent • Redrafted PCs for Element 2 (Visually assess harvest site) creating new requirements for

		<p>assessing site and environmental conditions, reading harvest plan, identifying log extraction methods, planning tree felling sequence and assessing and controlling risks and hazards.</p> <ul style="list-style-type: none"> • New PC 3.4 creating a new task requirement for optimising time and value recovery • New and redrafted PCS 5.1-5.5 for Element 5 (Maintain chainsaw and cutting attachments) creating new work tasks regarding equipment maintenance <p>Minor</p> <ul style="list-style-type: none"> • New and edited PCs for Element 1 (Prepare for harvesting), PCs 1.1 – 1.9, to clarify work preparation tasks in relation to workplace health and safety and environmental protection procedures, communication with team members and preparation of tools and equipment for work. The change also aims to maintain consistency across units of competency • Minor changes to PC 4.1, 4.2, 4.4 and 4.5 • New description provided for Foundation Skills • Performance Evidence redrafted to comply with Standards for Training Packages regarding volume of evidence • Inclusion of PPE, optimisation, biomechanical defects, chainsaw use and maintenance and reference to Australian Standards and Forest Codes of Practice in Knowledge Evidence • Redrafted Assessment Conditions statement to comply with Standards for Training Packages
--	--	--

Wood chipping

The first unit of competency listed below has been updated to improve relevance for both forestry and urban arboriculture users. The second unit of competency has been redeveloped in two units to provide for specific skills and operation of various specialised in-field wood chipping (forestry) equipment.

Current unit code and name	New unit code and name	Proposed changes
FWPHAR2206 Operate a mobile chipper/mulcher	FWPHAR2XXX Operate a mobile chipper/mulcher	<p>Minor</p> <ul style="list-style-type: none"> • Application statement redrafted to clarify that mulcher is hand fed and to more clearly identify the users of the unit • New and redrafted PC for Element 1 (Prepare for chipping or mulching) – PCs 1.1 – 1.8 to clarify work preparation tasks in relation to workplace health and safety and environmental protection procedures, communication with team members and preparation of tools and equipment for work. The change also aims to maintain consistency across units of competency • Element 2 redrafted to read Chip or mulch material and associated PCs edited to match • PC 2.7 added to include directing chipped material onto truck

		<ul style="list-style-type: none"> • Element 3 (Complete operator maintenance) and associated PCs redrafted to clarify operator maintenance tasks • New description provided for Foundation Skills - Reading • Performance Evidence redrafted to comply with Standards for Training Packages regarding volume of evidence • Knowledge Evidence included new items - feeding techniques to minimise operator exposure or injury and techniques for loading chipped / mulched material into truck or transport vehicle. Also, minor edits to clarify KE requirements • Assessment Conditions statement redrafted to comply with Standards for Training Packages
FWPHAR3215 Operate a heavy production mobile chipper	FWPHAR3XXX Operate integrated or split flail and wood chipper with crane FWPHAR3XXX Operate split flail and wood chipper fed by excavator with log grapple	<ul style="list-style-type: none"> • The unit was redeveloped into two units to provide for specific skills required to operate specialised in-field wood chipping equipment.

Units Proposed for Deletion

We are also seeking your views on the need to maintain or delete the following four units of competency from the [FWP Forest and Wood Products Training Package](#).

These units have had very low or no student enrolments over the last five years. However, initial stakeholder consultations suggested that the job functions described in these units are relevant to the industry. We need your views on whether to maintain or delete these units from the training package.

Please provide your response to Georgiana Daian gdaian@forestworks.com.au.

Unit code and name
FWPFGM2210 Implement animal pest control procedures
FWPFGM3209 Construct and maintain forest roads and tracks
FWPCOT3252 Use environmental care procedures to undertake fire salvage operations
FWPCOT3262 Transport forestry produce using trucks

Other project notes

- 2 units of competency have not been revised as they are core units in four FWP qualifications. According to the Training Package policies, the core units can only be reviewed as part of the qualification review. The units are:
 - FWPCOR2204 Follow fire prevention procedures
 - FWPCOR3203 Evaluate fire potential and prevention
- The unit FWPHAR3231 Operate yarder was initially not on the project scope, but has been reviewed due to feedback received from industry stakeholders and relevance to the skill areas covered by the project.

- Feedback from industry has also helped to identify:
 - A range of skills gaps in the *Certificate IV in Forest Operations* in relation to digital technology involving the development of digital forest operational maps and cutting instructions files for forestry harvesters, management and analysis of harvesting optimisation data and collection of forestry data using unmanned aerial vehicle (UAV). While these skill areas are on the project scope, the identified skill gaps are linked to higher-level job roles and qualifications than the approved project deliverables.
 - The need for rationalisation of three overarching environmental care units for forestry operations, noting that two of these units are Core units in the Certificate II and III for forest management and harvesting. According to the Training Package policies, the core units can only be reviewed as part of the qualification review.

As a result, this input will be followed up and addressed in a potential future project that will involve the review of relevant qualifications.