



**Australian Government**

**Department of Education, Employment and Workplace Relations**

# **FPI05 Forest and Forest Products Training Package**

**Release: 3.0**

## CONTENTS

Modification History .....	3
Imprint Page .....	41
Preliminary Information.....	41
List of AQF Qualifications.....	42
FPI units .....	43
Imported units .....	57
Mapping of Qualifications to the Previous Training Package .....	68
Mapping of Units of Competency to the Previous Training Pack .....	70
Mapping of Units of Competency in FPI05 V2.1 to FPI05 V2 .....	80
Overview .....	85
Introduction to FPI05 V3.....	90
Qualification framework.....	92
Qualifications and Packaging Rules .....	96
Introduction to the Industry .....	103
Skill Sets in this Training Package.....	104
Qualification Pathways .....	105
Competency Standards - Industry Contextualisation .....	107
Assessment Guidelines .....	107

## Modification History

### Version Modification History

Version	Release Date	Comments
3	TBC	<p><b>New qualification:</b></p> <ul style="list-style-type: none"> <li>• <b>FPI60111 Advanced Diploma of Forest Industry Sustainability</b></li> </ul> <p><b>Revised qualifications:</b></p> <p><b>New FPI units added to electives:</b></p> <ul style="list-style-type: none"> <li>• FPI30105 Certificate III in Forest Growing and Management</li> <li>• FPI30205 Certificate III in Harvesting and Haulage</li> <li>• FPI30305 Certificate III in Sawmilling and Processing</li> <li>• FPI30405 Certificate III in Wood Panel Products</li> <li>• FPI30505 Certificate III in Timber Manufactured Products</li> <li>• FPI30605 Certificate III in Timber Merchandising</li> <li>• FPI50105 Diploma of Forest and Forest Products</li> </ul> <p><b>New units:</b></p> <ul style="list-style-type: none"> <li>• FPICOR6201A Manage sustainability in the workplace</li> <li>• FPICOR6202A Implement practices to maximise value from wood residues</li> <li>• FPICOT3248A Dry timber in solar assisted kilns</li> <li>• FPICOT3249A Select timber preservation techniques</li> <li>• FPICOT3250A Prepare timber to meet import/export compliance requirements</li> <li>• FPICOT3251A Promote the carbon benefits of wood products</li> <li>• FPICOT3252A Use environmental care procedures to undertake fire salvage operations</li> <li>• FPICOT3253A Convert timber residue into products for further use</li> <li>• FPICOT3254A Implement environmentally sustainable work practices in the work area/work site</li> <li>• FPICOT5205A Develop biohazard contingency plans</li> <li>• FPICOT5206A Implement Forestry Chain of Custody certification system</li> <li>• FPICOT5207A Implement sustainability in the workplace</li> </ul>

Version	Release Date	Comments
		<ul style="list-style-type: none"> <li>• FPICOT5208A Build and maintain community relationships</li> <li>• FPICOT5209A Manage tree harvesting to minimise environmental impact</li> <li>• FPICOT6201A Manage community engagement</li> <li>• FPICOT6202A Develop and manage a Forestry Chain of Custody certification process for the workplace</li> <li>• FPICOT6203A Develop engineered timber products to meet energy efficient building</li> <li>• FPICOT6204A Use carbon accounting to estimate emissions in the workplace</li> <li>• FPICOT6205A Prepare an enterprise carbon management report</li> <li>• FPICOT6206A Develop forest management systems and processes</li> <li>• FPIFGM5217A Promote plantations as a sustainable form of land use</li> <li>• FPIFGM5218A <b>Undertake carbon storage sampling of forests and plantations</b></li> <li>• FPIFGM6201A Plan a biochar storage system for carbon capture and storage</li> <li>• FPIFGM6202A <b>Manage tree inventory for sustainable tree management</b></li> <li>• FPIHAR3216A Conduct forestry operations using crawler tractor</li> <li>• FPIHAR3217A Conduct skidder operations</li> <li>• FPIHAR3218A Conduct loader operations</li> <li>• FPIHAR3219A Conduct <b>excavator operations with grabs</b></li> </ul> <p><b>Deletion of units:</b></p> <ul style="list-style-type: none"> <li>• FPIHAR3203B Conduct crawler operations <i>has been deleted and replaced by</i> FPIHAR3216A Conduct forestry operations using crawler tractor</li> <li>• FPIHAR3204B Conduct skidder operations <i>has been deleted and replaced by</i> FPIHAR3217A Conduct skidder operations</li> <li>• FPIHAR3205B Conduct loader operations <i>has been deleted and replaced by</i> FPIHAR3218A Conduct loader operations</li> </ul>

Version	Release Date	Comments
		<ul style="list-style-type: none"> <li>FPIHAR3209B Conduct <b>excavator operations with grabs</b> <i>has been deleted and replaced by</i> FPIHAR3219A Conduct <b>excavator operations with grabs</b></li> </ul> <p><b>Update of units:</b> Minor changes to the following units of competency:</p> <ul style="list-style-type: none"> <li>FPICOR2201A Work effectively in the forest and forest products industry <i>has been altered</i> and renumbered FPICOR2201B Work effectively in the forest and forest products industry</li> <li>FPICOR2202A Communicate and interact effectively in the workplace <i>has been altered</i> and renumbered FPICOR2202B Communicate and interact effectively in the workplace</li> <li>FPICOR2203A Follow environmental care procedures <i>has been altered</i> and renumbered FPICOR2203B Follow environmental care procedures</li> <li>FPICOR2204A Follow fire prevention procedures <i>has been altered</i> and renumbered FPICOR2204B Follow fire prevention procedures</li> <li>FPICOR2205A Follow OHS policies and procedures <i>has been altered</i> and renumbered FPICOR2205B Follow OHS policies and procedures</li> <li>FPICOR2207A Maintain quality and product care <i>has been altered</i> and renumbered FPICOR2207B Maintain quality and product care</li> <li>FPICOR3201A Implement safety, health and environmental policies and procedures <i>has been altered</i> and renumbered FPICOR3201B Implement safety, health and environmental policies and procedures</li> </ul>

Version	Release Date	Comments
		<ul style="list-style-type: none"> <li>FPICOR3202A Conduct quality and product care procedures <i>has been altered</i> and renumbered FPICOR3202B Conduct quality and product care procedures</li> <li>FPICOR3203A Evaluate fire potential and prevention <i>has been altered</i> and renumbered FPICOR3203B Evaluate fire potential and prevention</li> <li>FPICOR3204A Visually assess materials <i>has been altered</i> and renumbered FPICOR3204B Visually assess materials</li> <li>FPICOR4201A Monitor safety, health and environmental policies and procedures <i>has been altered</i> and renumbered FPICOR4201B Monitor safety, health and environmental policies and procedures</li> <li>FPICOR4202A Monitor and review forestry operations <i>has been altered</i> and renumbered FPICOR4202B Monitor and review forestry operations</li> <li>FPICOR4203A Monitor <b>quality and product care procedures</b> <i>has been altered</i> and renumbered FPICOR4203B Monitor <b>quality and product care procedures</b></li> <li><b>FPICOT2201A Stack and bind material</b> <i>has been altered</i> and renumbered <b>FPICOT2201B Stack and bind material</b></li> <li><b>FPICOT2202A Rack material</b> <i>has been altered</i> and renumbered <b>FPICOT2202B Rack material</b></li> <li><b>FPICOT2203A Finish products</b></li> </ul>

Version	Release Date	Comments
		<p><i>has been altered</i> and renumbered <b>FPICOT2203B Finish products</b></p> <ul style="list-style-type: none"> <li> <b>FPICOT2205A Tail out materials</b>  <i>has been altered</i> and renumbered  <b>FPICOT2205B Tail out materials</b> </li> <li> <b>FPICOT2207A Dress boards and timber</b>  <i>has been altered</i> and renumbered  <b>FPICOT2207B Dress boards and timber</b> </li> <li> <b>FPICOT2208A Resaw boards and timber</b>  <i>has been altered</i> and renumbered  <b>FPICOT2208B Resaw boards and timber</b> </li> <li> <b>FPICOT2209A Produce finger jointed timber</b>  <i>has been altered</i> and renumbered  <b>FPICOT2209B Produce finger jointed timber</b> </li> <li> <b>FPICOT2210A Tally material</b>  <i>has been altered</i> and renumbered  <b>FPICOT2210B Tally material</b> </li> <li> <b>FPICOT2211A Produce pointed timber products</b>  <i>has been altered</i> and renumbered  <b>FPICOT2211B Produce pointed timber products</b> </li> <li> <b>FPICOT2212A Grade hardwood sawn and milled products</b>  <i>has been altered</i> and renumbered  <b>FPICOT2212B Grade hardwood sawn and milled products</b> </li> <li> <b>FPICOT2213A Grade softwood sawn and milled products</b>  <i>has been altered</i> and renumbered  <b>FPICOT2213B Grade softwood sawn and milled products</b> </li> <li> <b>FPICOT2214A Grade cypress sawn and milled products</b> </li> </ul>

Version	Release Date	Comments
		<p><i>has been altered</i> and renumbered  <b>FPICOT2214B Grade cypress sawn and milled products</b></p> <ul style="list-style-type: none"> <li> <b>FPICOT2215A Visually stress grade hardwood</b>  <i>has been altered</i> and renumbered  <b>FPICOT2215B Visually stress grade hardwood</b> </li> <li> <b>FPICOT2216A Visually stress grade softwood</b>  <i>has been altered</i> and renumbered  <b>FPICOT2216B Visually stress grade softwood</b> </li> <li> <b>FPICOT2217A Visually stress grade cypress</b>  <i>has been altered</i> and renumbered  <b>FPICOT2217B Visually stress grade cypress</b> </li> <li> <b>FPICOT2218A Cross cut materials with a fixed saw</b>  <i>has been altered</i> and renumbered  <b>FPICOT2218B Cross cut materials with a fixed saw</b> </li> <li> <b>FPICOT2219A Use hand-held tools</b>  <i>has been altered</i> and renumbered  <b>FPICOT2219B Use hand-held tools</b> </li> <li> <b>FPICOT2220A Select trees for tending operations</b>  <i>has been altered</i> and renumbered  <b>FPICOT2219B Use hand-held tools</b> </li> <li> <b>FPICOT2222A Produce laminated beams</b>  <i>has been altered</i> and renumbered  <b>FPICOT2222B Produce laminated beams</b> </li> <li> <b>FPICOT2223A Segregate and sort logs</b>  <i>has been altered</i> and renumbered  <b>FPICOT2223B Segregate and sort logs</b> </li> <li> <b>FPICOT2224A Band edges of panels</b>  <i>has been altered</i> and renumbered  <b>FPICOT2224B Band edges of panels</b> </li> </ul>



Version	Release Date	Comments
		<ul style="list-style-type: none"> <li>• <b>FPICOT2225A Chip or flake wood</b> <i>has been altered</i> and renumbered <b>FPICOT2225B Chip or flake wood</b></li> <li>• <b>FPICOT2226A Debark logs mechanically</b> <i>has been altered</i> and renumbered <b>FPICOT2226B Debark logs mechanically</b></li> <li>• <b>FPICOT2227A Process orders and despatch products</b> <i>has been altered</i> and renumbered <b>FPICOT2227B Process orders and despatch products</b></li> <li>• <b>FPICOT2228A Store materials</b> <i>has been altered</i> and renumbered <b>FPICOT2228B Store materials</b></li> <li>• <b>FPICOT2229A Dock material to length</b> <i>has been altered</i> and renumbered <b>FPICOT2229B Dock material to length</b></li> <li>• <b>FPICOT2230A Assemble products</b> <i>has been altered</i> and renumbered <b>FPICOT2230B Assemble products</b></li> <li>• <b>FPICOT2231A Pack products</b> <i>has been altered</i> and renumbered <b>FPICOT2231B Pack products</b></li> <li>• <b>FPICOT2232A Cut material to shape using a saw</b> <i>has been altered</i> and renumbered <b>FPICOT2232B Cut material to shape using a saw</b></li> <li>• <b>FPICOT2233A Navigate in forest areas</b> <i>has been altered</i> and renumbered <b>FPICOT2233B Navigate in forest areas</b></li> </ul>

Version	Release Date	Comments
		<ul style="list-style-type: none"> <li>• <b>FPICOT2234A Operate 4x4 vehicle</b> <i>has been altered</i> and renumbered <b>FPICOT2234B Operate 4x4 vehicle</b></li> <li>• <b>FPICOT3201A Hand sharpen knives and blades</b> <i>has been altered</i> and renumbered <b>FPICOT2234B Operate 4x4 vehicle</b></li> <li>• <b>FPICOT3202A Navigate in remote or trackless areas</b> <i>has been altered</i> and renumbered <b>FPICOT3202B Navigate in remote or trackless areas</b></li> <li>• <b>FPICOT3203A Weigh loads</b> <i>has been altered</i> and renumbered <b>FPICOT3203B Weigh loads</b></li> <li>• <b>FPICOT3204A Prepare and interpret sketches and drawings</b> <i>has been altered</i> and renumbered <b>FPICOT3204B Prepare and interpret sketches and drawings</b></li> <li>• <b>FPICOT3205A Dress boards using multi-headed machines</b> <i>has been altered</i> and renumbered <b>FPICOT3205B Dress boards using multi-headed machines</b></li> <li>• <b>FPICOT3206A Cut material using high speed optimiser</b> <i>has been altered</i> and renumbered <b>FPICOT3206B Cut material using high speed optimiser</b></li> <li>• <b>FPICOT3207A Set up, operate and maintain finger jointing operations</b> <i>has been altered</i> and renumbered <b>FPICOT3207B Set up, operate and maintain finger jointing operations</b></li> <li>• <b>FPICOT3208A Test strength of joints</b></li> </ul>

Version	Release Date	Comments
		<p><i>has been altered</i> and renumbered  <b>FPICOT3208B Test strength of joints</b></p> <ul style="list-style-type: none"> <li> <b>FPICOT3209A Set up, operate and maintain end matching operations</b>  <i>has been altered</i> and renumbered  <b>FPICOT3209B Set up, operate and maintain end matching operations</b> </li> <li> <b>FPICOT3210A Sharpen cutting tools</b>  <i>has been altered</i> and renumbered  <b>FPICOT3210B Sharpen cutting tools</b> </li> <li> <b>FPICOT3211A Maintain sawdoctoring tools</b>  <i>has been altered</i> and renumbered  <b>FPICOT3211B Maintain sawdoctoring tools</b> </li> <li> <b>FPICOT3212A Replace saws, blades and guides</b>  <i>has been altered</i> and renumbered  <b>FPICOT3212B Replace saws, blades and guides</b> </li> <li> <b>FPICOT3213A Manufacture cutting tools</b>  <i>has been altered</i> and renumbered  <b>FPICOT3213B Manufacture cutting tools</b> </li> <li> <b>FPICOT3214A Take off material quantities</b>  <i>has been altered</i> and renumbered  <b>FPICOT3214B Take off material quantities</b> </li> <li> <b>FPICOT3215A Swage and shape saw blades</b>  <i>has been altered</i> and renumbered  <b>FPICOT3215B Swage and shape saw blades</b> </li> <li> <b>FPICOT3216A Assess and maintain saw performance</b>  <i>has been altered</i> and renumbered  <b>FPICOT3216B Assess and maintain saw performance</b> </li> <li> <b>FPICOT3217A Assess and maintain cutter performance</b> </li> </ul>

Version	Release Date	Comments
		<p><i>has been altered</i> and renumbered  <b>FPICOT3217B Assess and maintain cutter performance</b></p> <ul style="list-style-type: none"> <li> <b>FPICOT3219A Produce standard truss or frame plans and details using computers</b>  <i>has been altered</i> and renumbered  <b>FPICOT3219B Produce standard truss or frame plans and details using computers</b> </li> <li> <b>FPICOT3221A Rehabilitate tracks, quarries and landings</b>  <i>has been altered</i> and renumbered  <b>FPICOT3221B Rehabilitate tracks, quarries and landings</b> </li> <li> <b>FPICOT3222A Present forestry information and interpretations programs</b>  <i>has been altered</i> and renumbered  <b>FPICOT3222B Present forestry information and interpretations programs</b> </li> <li> <b>FPICOT3223A Grade and mark logs</b>  <i>has been altered</i> and renumbered  <b>FPICOT3223B Grade and mark logs</b> </li> <li> <b>FPICOT3224A Plan and monitor equipment maintenance</b>  <i>has been altered</i> and renumbered  <b>FPICOT3224B Plan and monitor equipment maintenance</b> </li> <li> <b>FPICOT3225A Mechanically stress grade timber</b>  <i>has been altered</i> and renumbered  <b>FPICOT3225B Mechanically stress grade timber</b> </li> <li> <b>FPICOT3226A Shift forestry logs using trucks</b>  <i>has been altered</i> and renumbered  <b>FPICOT3226B Shift forestry logs using trucks</b> </li> <li> <b>FPICOT3227A Receive and measure logs</b>  <i>has been altered</i> and renumbered  <b>FPICOT3227B Receive and measure logs</b> </li> </ul>

Version	Release Date	Comments
		<ul style="list-style-type: none"> <li> <b>FPICOT3228A Plane/sand panels</b>  <i>has been altered</i> and renumbered  <b>FPICOT3228B Plane/sand panels</b> </li> <li> <b>FPICOT3229A Mechanically stress grade panels</b>  <i>has been altered</i> and renumbered  <b>FPICOT3229B Mechanically stress grade panels</b> </li> <li> <b>FPICOT3230A Operate automated stacking equipment</b>  <i>has been altered</i> and renumbered  <b>FPICOT3230B Operate automated stacking equipment</b> </li> <li> <b>FPICOT3231A Operate steam boiler</b>  <i>has been altered</i> and renumbered  <b>FPICOT3231B Operate steam boiler</b> </li> <li> <b>FPICOT3232A Operate heat plant</b>  <i>has been altered</i> and renumbered  <b>FPICOT3232B Operate heat plant</b> </li> <li> <b>FPICOT3233A Sharpen and align blades and knives</b>  <i>has been altered</i> and renumbered  <b>FPICOT3233B Sharpen and align blades and knives</b> </li> <li> <b>FPICOT3234A Cut material using CNC sizing machines</b>  <i>has been altered</i> and renumbered  <b>FPICOT3234B Cut material using CNC sizing machines</b> </li> <li> <b>FPICOT3235A Machine material using CNC machining and processing centres</b>  <i>has been altered</i> and renumbered  <b>FPICOT3235B Machine material using CNC machining and processing centres</b> </li> <li> <b>FPICOT3236A Coordinate stock control procedures</b>  <i>has been altered</i> and renumbered  <b>FPICOT3236B Coordinate stock control procedures</b> </li> </ul>

Version	Release Date	Comments
		<ul style="list-style-type: none"> <li>• <b>FPICOT3237A Produce templates</b> <i>has been altered</i> and renumbered <b>FPICOT3237B Produce templates</b></li> <li>• <b>FPICOT3238A Operate a pole saw</b> <i>has been altered</i> and renumbered <b>FPICOT3238B Operate a pole saw</b></li> <li>• <b>FPICOT3239A Create drawings using computer aided design systems</b> <i>has been altered</i> and renumbered <b>FPICOT3239B Create drawings using computer aided design systems</b></li> <li>• <b>FPICOT3240A Grade heavy structural/engineered products</b> <i>has been altered</i> and renumbered <b>FPICOT3240B Grade heavy structural/engineered products</b></li> <li>• <b>FPICOT3241A Assemble timber wall frames</b> <i>has been altered</i> and renumbered <b>FPICOT3241B Assemble timber wall frames</b></li> <li>• <b>FPICOT3242A Lay up timber roof trusses</b> <i>has been altered</i> and renumbered <b>FPICOT3242B Lay up timber roof trusses</b></li> <li>• <b>FPICOT3243A Operate a truss press</b> <i>has been altered</i> and renumbered <b>FPICOT3243B Operate a truss press</b></li> <li>• <b>FPICOT3244A Cut material to profile</b> <i>has been altered</i> and renumbered <b>FPICOT3244B Cut material to profile</b></li> <li>• <b>FPICOT3245A Grade, sort and mark material</b></li> </ul>

Version	Release Date	Comments
		<p><i>has been altered</i> and renumbered  <b>FPICOT3245B Grade, sort and mark material</b></p> <ul style="list-style-type: none"> <li> <b>FPICOT3246A Test heavy structural/engineered products</b>  <i>has been altered</i> and renumbered  <b>FPICOT3246B Test heavy structural/engineered products</b> </li> <li> <b>FPICOT3247A Select timber for forestry operations</b>  <i>has been altered</i> and renumbered  <b>FPICOT3247B Select timber for forestry operations</b> </li> <li> <b>FPICOT4201A Produce complex truss and frame plans and details using computers</b>  <i>has been altered</i> and renumbered  <b>FPICOT4201B Produce complex truss and frame plans and details using computers</b> </li> <li> <b>FPICOT4203A Plan and coordinate product assembly</b>  <i>has been altered</i> and renumbered  <b>FPICOT4203B Plan and coordinate product assembly</b> </li> <li> <b>FPICOT4204A Schedule and coordinate load shifting</b>  <i>has been altered</i> and renumbered  <b>FPICOT4204B Schedule and coordinate load shifting</b> </li> <li> <b>FPICOT4205A Coordinate log debarking operations</b>  <i>has been altered</i> and renumbered  <b>FPICOT4205B Coordinate log debarking operations</b> </li> <li> <b>FPICOT4206A Plan and coordinate boiler operations</b>  <i>has been altered</i> and renumbered  <b>FPICOT4206B Plan and coordinate boiler operations</b> </li> <li> <b>FPICOT4207A Plan and coordinate heat plant operations</b>  <i>has been altered</i> and renumbered  <b>FPICOT4207B Plan and coordinate heat plant operations</b> </li> <li> <b>FPICOT5201A Implement sustainable forestry practices</b> </li> </ul>

Version	Release Date	Comments
		<p><i>has been altered</i> and renumbered  <b>FPICOT5201B Implement sustainable forestry practices</b></p> <ul style="list-style-type: none"> <li> <b>FPICOT5202A Manage forestry information and interpretations programs</b>  <i>has been altered</i> and renumbered  <b>FPICOT5202B Manage forestry information and interpretations programs</b> </li> <li> <b>FPICOT5203A Manage installation and commissioning of equipment</b>  <i>has been altered</i> and renumbered  <b>FPICOT5203B Manage installation and commissioning of equipment</b> </li> <li> <b>FPICOT5204B Organise enterprise maintenance programs</b>  <i>has been altered</i> and renumbered  <b>FPICOT5204B Organise enterprise maintenance programs</b> </li> <li> <b>FPIFGM2201A Collect seed</b>  <i>has been altered</i> and renumbered  <b>FPIFGM2201B Collect seed</b> </li> <li> <b>FPIFGM2202A Prepare seedbed</b>  <i>has been altered</i> and renumbered  <b>FPIFGM2202B Prepare seedbed</b> </li> <li> <b>FPIFGM2203A Plant trees by hand</b>  <i>has been altered</i> and renumbered  <b>FPIFGM2203B Plant trees by hand</b> </li> <li> <b>FPIFGM2204A Plant trees mechanically</b>  <i>has been altered</i> and renumbered  <b>FPIFGM2204B Plant trees mechanically</b> </li> <li> <b>FPIFGM2205A Prune trees</b>  <i>has been altered</i> and renumbered </li> </ul>



Version	Release Date	Comments
		<p><b>FPIFGM2205B Prune trees</b></p> <ul style="list-style-type: none"> <li> <p><b>FPIFGM2206A Collect data or samples for assessment</b>  <i>has been altered</i> and renumbered  <b>FPIFGM2206B Collect data or samples for assessment</b></p> </li> <li> <p><b>FPIFGM2207A Undertake brushcutting operations</b>  <i>has been altered</i> and renumbered  <b>FPIFGM2207B Undertake brushcutting operations</b></p> </li> <li> <p><b>FPIFGM2209A Cut, sort and set cuttings</b>  <i>has been altered</i> and renumbered  <b>FPIFGM2209B Cut, sort and set cuttings</b></p> </li> <li> <p><b>FPIFGM2210A Implement animal pest control procedures</b>  <i>has been altered</i> and renumbered  <b>FPIFGM2210B Implement animal pest control procedures</b></p> </li> <li> <p><b>FPIFGM2211A Detect fires</b>  <i>has been altered</i> and renumbered  <b>FPIFGM2211B Detect fires</b></p> </li> <li> <p><b>FPIFGM2212A Graft cuttings</b>  <i>has been altered</i> and renumbered  <b>FPIFGM2212B Graft cuttings</b></p> </li> <li> <p><b>FPIFGM2213A Process seed</b>  <i>has been altered</i> and renumbered  <b>FPIFGM2213B Process seed</b></p> </li> <li> <p><b>FPIFGM2214A Maintain visitor sites</b>  <i>has been altered</i> and renumbered  <b>FPIFGM2214B Maintain visitor sites</b></p> </li> <li> <p><b>FPIFGM2215A Measure trees</b>  <i>has been altered</i> and renumbered</p> </li> </ul>

Version	Release Date	Comments
		<p><b>FPIFGM2215B Measure trees</b></p> <ul style="list-style-type: none"> <li> <p><b>FPIFGM3201A Manage seed collection</b>  <i>has been altered</i> and renumbered  <b>FPIFGM3201B Manage seed collection</b></p> </li> <li> <p><b>FPIFGM3202A Extract seed</b>  <i>has been altered</i> and renumbered  <b>FPIFGM3202B Extract seed</b></p> </li> <li> <p><b>FPIFGM3203A Conduct an instrument survey</b>  <i>has been altered</i> and renumbered  <b>FPIFGM3203B Conduct an instrument survey</b></p> </li> <li> <p><b>FPIFGM3206A Plan and implement non-commercial thinning operations</b>  <i>has been altered</i> and renumbered  <b>FPIFGM3206B Plan and implement non-commercial thinning operations</b></p> </li> <li> <p><b>FPIFGM3207A Coordinate stem improvement</b>  <i>has been altered</i> and renumbered  <b>FPIFGM3207B Coordinate stem improvement</b></p> </li> <li> <p><b>FPIFGM3208A Perform complex 4x4 operations</b>  <i>has been altered</i> and renumbered  <b>FPIFGM3208B Perform complex 4x4 operations</b></p> </li> <li> <p><b>FPIFGM3209A Construct and maintain forest roads and tracks</b>  <i>has been altered</i> and renumbered  <b>FPIFGM3209B Construct and maintain forest roads and tracks</b></p> </li> <li> <p><b>FPIFGM3210A Patrol forest</b>  <i>has been altered</i> and renumbered  <b>FPIFGM3210B Patrol forest</b></p> </li> </ul>

Version	Release Date	Comments
		<ul style="list-style-type: none"> <li>• <b>FPIFGM3211A Manage coppice stems</b> <i>has been altered</i> and renumbered <b>FPIFGM3211B Manage coppice stems</b></li> <li>• <b>FPIFGM4201A Implement a forest establishment plan</b> <i>has been altered</i> and renumbered <b>FPIFGM4201B Implement a forest establishment plan</b></li> <li>• <b>FPIFGM4202A Manage stand health</b> <i>has been altered</i> and renumbered <b>FPIFGM4202B Manage stand health</b></li> <li>• <b>FPIFGM4203A Design plantations</b> <i>has been altered</i> and renumbered <b>FPIFGM4203B Design plantations</b></li> <li>• <b>FPIFGM4204A Conduct a pests and diseases assessment</b> <i>has been altered</i> and renumbered <b>FPIFGM4204B Conduct a pests and diseases assessment</b></li> <li>• <b>FPIFGM4205A Monitor regeneration rates</b> <i>has been altered</i> and renumbered <b>FPIFGM4205B Monitor regeneration rates</b></li> <li>• <b>FPIFGM4206A Conduct a wood volume and yield assessment</b> <i>has been altered</i> and renumbered <b>FPIFGM4206B Conduct a wood volume and yield assessment</b></li> <li>• <b>FPIFGM4207A Conduct a forest site assessment</b> <i>has been altered</i> and renumbered <b>FPIFGM4207B Conduct a forest site assessment</b></li> <li>• <b>FPIFGM4208A Plan a quarry</b> <i>has been altered</i> and renumbered <b>FPIFGM4208B Plan a quarry</b></li> </ul>

Version	Release Date	Comments
		<ul style="list-style-type: none"> <li> <b>FPIFGM4209A Interpret and use aerial photographs for forest management</b>  <i>has been altered</i> and renumbered  <b>FPIFGM4209B Interpret and use aerial photographs for forest management</b> </li> <li> <b>FPIFGM4210A Prepare a tender</b>  <i>has been altered</i> and renumbered  <b>FPIFGM4210B Prepare a tender</b> </li> <li> <b>FPIFGM5201A Plan and manage an inventory program</b>  <i>has been altered</i> and renumbered  <b>FPIFGM5201B Plan and manage an inventory program</b> </li> <li> <b>FPIFGM5208A Manage road construction and maintenance</b>  <i>has been altered</i> and renumbered  <b>FPIFGM5208B Manage road construction and maintenance</b> </li> <li> <b>FPIHAR3206B Conduct forwarder operations</b>  <i>has been altered</i> and renumbered  <b>FPIHAR3206C Conduct forwarder operations</b> </li> <li> <b>FPIHAR3207B Conduct feller buncher operations</b>  <i>has been altered</i> and renumbered  <b>FPIHAR3207C Conduct feller buncher operations</b> </li> <li> <b>FPIHAR3208B Conduct boom delimber operations</b>  <i>has been altered</i> and renumbered  <b>FPIHAR3208C Conduct boom delimber operations</b> </li> <li> <b>FPIHAR3210B Conduct mechanical processor operations</b>  <i>has been altered</i> and renumbered  <b>FPIHAR3210C Conduct mechanical processor operations</b> </li> <li> <b>FPIHAR3214B Operate a single grip harvester</b>  <i>has been altered</i> and renumbered  <b>FPIHAR3214C Operate a single grip harvester</b> </li> </ul>

Version	Release Date	Comments
		<ul style="list-style-type: none"> <li><b>FPIHAR3215B Operate a heavy production mobile chipper</b> <i>has been altered</i> and renumbered</li> <li><b>FPIHAR3215C Operate a heavy production mobile chipper</b></li> </ul> <p><b>Additional imported units:</b></p> <ul style="list-style-type: none"> <li><b>BSBADM502B Manage meetings</b></li> <li><b>BSBINN601B Manage organisational change</b></li> <li><b>BSBINN801A Lead innovative thinking and practice</b></li> <li><b>BSBMGT507A Manage environmental performance</b></li> <li><b>BSBMGT608C Manage innovation and continuous improvement</b></li> <li><b>BSBREL701A Develop and cultivate collaborative relationships</b></li> <li><b>MSACMT671A Develop and maintain sustainable energy practices</b></li> <li><b>PSPGOV521A Collect statistical data</b></li> <li><b>PSPGOV602B Establish and maintain strategic relationships</b></li> <li><b>PSPMNGT604B Manage change</b></li> <li><b>PSPMNGT703A Lead and influence change</b></li> <li><b>PSPPOL603A Manage policy implementation</b></li> <li><b>PSPREG603A Manage and lead inspection and monitoring programs</b></li> <li><b>ICTSUS7235A Use ICT to improve sustainability outcomes</b></li> <li><b>SIRFIN004A Manage financial resources</b></li> <li><b>SIRXFIN005A Manage operations to budget</b></li> <li><b>SIRXMGT005A Set strategic plans</b></li> </ul> <p><b>Imported units in all qualifications:</b></p> <ul style="list-style-type: none"> <li><b>updated to latest version</b></li> </ul>
2.1	November 2010	<p><b>Update of units:</b> Minor changes to the following units of competency:</p> <ul style="list-style-type: none"> <li><b>FPIHAR2203A Hook up felled logs using cables (choker)</b> <i>has been altered</i> and renumbered</li> </ul>

Version	Release Date	Comments
		<p>FPIHAR2203B Hook up felled logs using cables (choker)</p> <ul style="list-style-type: none"> <li> <p>FPIHAR2204A Perform landing duties (chaser)  <i>has been altered</i> and renumbered</p> <p>FPIHAR2204B Perform landing duties (chaser)</p> </li> <li> <p>FPIHAR2205A Conduct mobile splitting operations  <i>has been altered</i> and renumbered</p> <p>FPIHAR2205B Conduct mobile splitting operations</p> </li> <li> <p>FPIHAR2206A Operate a mobile chipper/mulcher  <i>has been altered</i> and renumbered</p> <p>FPIHAR2206B Operate a mobile chipper/mulcher</p> </li> <li> <p>FPIHAR3201A Monitor log recovery (rigging slinger)  <i>has been altered</i> and renumbered</p> <p>FPIHAR3201B Monitor log recovery (rigging slinger)</p> </li> <li> <p>FPIHAR3211A Operate yarder  <i>has been altered</i> and renumbered</p> <p>FPIHAR3211B Operate yarder</p> </li> <li> <p>FPIHAR3213A Conduct mechanically assisted tree falling operations  <i>has been altered</i> and renumbered</p> <p>FPIHAR3213B Conduct mechanically assisted tree falling operations</p> </li> <li> <p>FPIHAR4201A Apply tree jacking techniques  <i>has been altered</i> and renumbered</p> <p>FPIHAR4201B Apply tree jacking techniques</p> </li> <li> <p>FPIHAR4202A Coordinate log recovery (hook tender)  <i>has been altered</i> and renumbered</p> <p>FPIHAR4202B Coordinate log recovery (hook tender)</p> </li> <li> <p>FPIHAR4203A Design log landings and snig tracks  <i>has been altered</i> and renumbered</p> </li> </ul>

Version	Release Date	Comments
		<p>FPIHAR4203B Design log landings and snig tracks</p> <ul style="list-style-type: none"> <li>FPIHAR4204A Plan and coordinate fire salvage operations <i>has been altered</i> and renumbered FPIHAR4204B Plan and coordinate fire salvage operations</li> <li>FPIHAR4205A Implement harvesting plans <i>has been altered</i> and renumbered FPIHAR4205B Implement harvesting plans</li> <li>FPIHAR5201A Design harvesting plans <i>has been altered</i> and renumbered FPIHAR5201B Design harvesting plans</li> <li>FPISAW2201A Grade round poles and debarked logs <i>has been altered</i> and renumbered FPISAW2201B Grade round poles and debarked logs</li> <li>FPISAW2202A Sort boards manually <i>has been altered</i> and renumbered FPISAW2202B Sort boards manually</li> <li>FPISAW2203A Sort boards mechanically <i>has been altered</i> and renumbered FPISAW2203B Sort boards mechanically</li> <li>FPISAW2204A Dock boards with mechanical feed <i>has been altered</i> and renumbered FPISAW2204B Dock boards with mechanical feed</li> <li>FPISAW2205A Assemble materials using nail plates <i>has been altered</i> and renumbered FPISAW2205B Assemble materials using nail plates</li> <li>FPISAW2206A De-stack seasoning racks <i>has been altered</i> and renumbered FPISAW2206B De-stack seasoning racks</li> </ul>

Version	Release Date	Comments
		<ul style="list-style-type: none"> <li>FPISAW2207A Round softwood logs <i>has been altered</i> and renumbered FPISAW2207B Round softwood logs</li> <li>FPISAW2208A Split wood products <i>has been altered</i> and renumbered FPISAW2208B Split wood products</li> <li>FPISAW2209A Dismantle, transport and assemble hand portable sawmill <i>has been altered</i> and renumbered FPISAW2209B Dismantle, transport and assemble hand portable sawmill</li> <li>FPISAW2210A Prepare for timber treatment operations <i>has been altered</i> and renumbered FPISAW2210B Prepare for timber treatment operations</li> <li>FPISAW3201A Treat timber <i>has been altered</i> and renumbered FPISAW3201B Treat timber</li> <li>FPISAW3202A Produce sawn green boards <i>has been altered</i> and renumbered FPISAW3202B Produce sawn green boards</li> <li>FPISAW3203A Break down logs <i>has been altered</i> and renumbered FPISAW3203B Break down logs</li> <li>FPISAW3204A Saw flitches and cants <i>has been altered</i> and renumbered FPISAW3204B Saw flitches and cants</li> <li>FPISAW3205A Dry hardwood <i>has been altered</i> and renumbered FPISAW3205B Dry hardwood</li> </ul>



Version	Release Date	Comments
		<ul style="list-style-type: none"> <li>• FPISAW3206A Dry softwood <i>has been altered</i> and renumbered FPISAW3206B Dry softwood</li> <li>• FPISAW3207A Sharpen band saws <i>has been altered</i> and renumbered FPISAW3207B Sharpen band saws</li> <li>• FPISAW3208A Sharpen circular saws <i>has been altered</i> and renumbered FPISAW3208B Sharpen circular saws</li> <li>• FPISAW3209A Align sawing production systems <i>has been altered</i> and renumbered FPISAW3209B Align sawing production systems</li> <li>• FPISAW3210A File and set saws <i>has been altered</i> and renumbered FPISAW3210B File and set saws</li> <li>• FPISAW3211A Recondition guides <i>has been altered</i> and renumbered FPISAW3211B Recondition guides</li> <li>• FPISAW3212A Sharpen tipped circular saws <i>has been altered</i> and renumbered FPISAW3212B Sharpen tipped circular saws</li> <li>• FPISAW3213A Level and tension circular saws <i>has been altered</i> and renumbered FPISAW3213B Level and tension circular saws</li> <li>• FPISAW3214A Join band saw blades <i>has been altered</i> and renumbered FPISAW3214B Join band saw blades</li> </ul>

Version	Release Date	Comments
		<ul style="list-style-type: none"> <li>• FPISAW3215A Screen wood chips <i>has been altered</i> and renumbered FPISAW3215B Screen wood chips</li> <li>• FPISAW3216A Transfer wood chips <i>has been altered</i> and renumbered FPISAW3216B Transfer wood chips</li> <li>• FPISAW3217A Hard face saw teeth <i>has been altered</i> and renumbered FPISAW3217B Hard face saw teeth</li> <li>• FPISAW3218A Replace tungsten tips <i>has been altered</i> and renumbered FPISAW3218B Replace tungsten tips</li> <li>• FPISAW3219A Replace stellite tips <i>has been altered</i> and renumbered FPISAW3219B Replace stellite tips</li> <li>• FPISAW3220A Maintain wide band saw blades <i>has been altered</i> and renumbered FPISAW3220B Maintain wide band saw blades</li> <li>• FPISAW3221A Profile saw blanks <i>has been altered</i> and renumbered FPISAW3221B Profile saw blanks</li> <li>• FPISAW3222A Recondition band mill wheels <i>has been altered</i> and renumbered FPISAW3222B Recondition band mill wheels</li> <li>• FPISAW3223A Assess wood chips <i>has been altered</i> and renumbered FPISAW3223B Assess wood chips</li> <li>• FPISAW3224A Coordinate and monitor the wood chip stockpile</li> </ul>

Version	Release Date	Comments
		<p><i>has been altered</i> and renumbered FPISAW3224B Coordinate and monitor the wood chip stockpile</p> <ul style="list-style-type: none"> <li>FPISAW3225A Maintain frame saw blades <i>has been altered</i> and renumbered FPISAW3225B Maintain frame saw blades</li> <li>FPISAW3226A Saw logs using CNC optimising systems <i>has been altered</i> and renumbered FPISAW3226B Saw logs using CNC optimising systems</li> <li>FPISAW3227A Select and saw logs in multi-species operations <i>has been altered</i> and renumbered FPISAW3227B Select and saw logs in multi-species operations</li> <li>FPISAW3228A Apply principles of blade design to sawing procedures <i>has been altered</i> and renumbered FPISAW3228B Apply principles of blade design to sawing procedures</li> <li>FPISAW3229A Operate a portable sawmill <i>has been altered</i> and renumbered FPISAW3229B Operate a portable sawmill</li> <li>FPISAW4201A Plan and monitor timber treatment plant operations <i>has been altered</i> and renumbered FPISAW4201B Plan and monitor timber treatment plant operations</li> <li>FPISAW4202A Plan and monitor saw log operations <i>has been altered</i> and renumbered FPISAW4202B Plan and monitor saw log operations</li> <li>FPISAW4203A Coordinate timber drying operations</li> </ul>

Version	Release Date	Comments
		<p><i>has been altered</i> and renumbered FPISAW4203B Coordinate timber drying operations</p> <ul style="list-style-type: none"> <li>FPISAW4204A Plan and monitor board conversion <i>has been altered</i> and renumbered FPISAW4204B Plan and monitor board conversion</li> <li>FPITMM2201A Cut material to length and angles <i>has been altered</i> and renumbered FPITMM2201B Cut material to length and angles</li> <li>FPITMM2202A Machine material <i>has been altered</i> and renumbered FPITMM2202B Machine material</li> <li>FPITMM3201A Convert timber <i>has been altered</i> and renumbered FPITMM3201B Convert timber</li> <li>FPITMM3202A Manufacture using joinery machines <i>has been altered</i> and renumbered FPITMM3202B Manufacture using joinery machines</li> <li>FPITMM3203A Estimate and cost job <i>has been altered</i> and renumbered FPITMM3203B Estimate and cost job</li> <li>FPITMM4201A Construct prototypes and samples <i>has been altered</i> and renumbered FPITMM4201B Construct prototypes and samples</li> <li>FPITMM4202A Diagnose and calculate production costs <i>has been altered</i> and renumbered FPITMM4202B Diagnose and calculate production costs</li> <li>FPITMM4203A Install and commission CNC software <i>has been altered</i> and renumbered FPITMM4203B Install and commission CNC software</li> </ul>

Version	Release Date	Comments
		<ul style="list-style-type: none"> <li>FPITMM4204A Sample and test products to specifications <i>has been altered</i> and renumbered FPITMM4204B Sample and test products to specifications</li> <li>FPITMM5201A Assess product feasibility of designs <i>has been altered</i> and renumbered FPITMM5201B Assess product feasibility of designs</li> <li>FPITMM5202A Develop, trial and evaluate prototypes <i>has been altered</i> and renumbered FPITMM5202B Develop, trial and evaluate prototypes</li> <li>FPITMM5203A Generate and transfer complex computer-aided drawings and specifications <i>has been altered</i> and renumbered FPITMM5203B Generate and transfer complex computer-aided drawings and specifications</li> <li>FPITMM5204A Manage product design <i>has been altered</i> and renumbered FPITMM5204B Manage product design</li> <li>FPITMM5205A Optimise CNC operations <i>has been altered</i> and renumbered FPITMM5205B Optimise CNC operations</li> <li>FPITMM5206A Plan production <i>has been altered</i> and renumbered FPITMM5206B Plan production</li> <li>FPIWPP2201A Cut panels <i>has been altered</i> and renumbered FPIWPP2201B Cut panels</li> <li>FPIWPP2202A Surface treat raw board <i>has been altered</i> and renumbered FPIWPP2202B Surface treat raw board</li> </ul>

Version	Release Date	Comments
		<ul style="list-style-type: none"> <li>FPIWPP2203A Repair veneer and ply <i>has been altered</i> and renumbered FPIWPP2203B Repair veneer and ply</li> <li>FPIWPP2204A Repair veneer mechanically <i>has been altered</i> and renumbered FPIWPP2204B Repair veneer mechanically</li> <li>FPIWPP2205A Prepare chip or fibre blends <i>has been altered</i> and renumbered FPIWPP2205B Prepare chip or fibre blends</li> <li>FPIWPP2206A Prepare veneer for ply <i>has been altered</i> and renumbered FPIWPP2206B Prepare veneer for ply</li> <li>FPIWPP2207A Scarf edges of veneer <i>has been altered</i> and renumbered FPIWPP2207B Scarf edges of veneer</li> <li>FPIWPP2208A Cut veneer <i>has been altered</i> and renumbered FPIWPP2208B Cut veneer</li> <li>FPIWPP2209A Saw products from continuous ply <i>has been altered</i> and renumbered FPIWPP2209B Saw products from continuous ply</li> <li>FPIWPP2210A Cut panels to profile <i>has been altered</i> and renumbered FPIWPP2210B Cut panels to profile</li> <li>FPIWPP2211A Move material by transfer equipment <i>has been altered</i> and renumbered FPIWPP2211B Move material by transfer equipment</li> </ul>

Version	Release Date	Comments
		<ul style="list-style-type: none"> <li>FPIWPP3201A Produce veneer from debarked logs <i>has been altered</i> and renumbered</li> <li>FPIWPP3201B Produce veneer from debarked logs</li> <li>FPIWPP3202A Paint panels <i>has been altered</i> and renumbered</li> <li>FPIWPP3202B Paint panels</li> <li>FPIWPP3203A Produce fibre from chips <i>has been altered</i> and renumbered</li> <li>FPIWPP3203B Produce fibre from chips</li> <li>FPIWPP3204A Form board <i>has been altered</i> and renumbered</li> <li>FPIWPP3204B Form board</li> <li>FPIWPP3205A Match and join veneer <i>has been altered</i> and renumbered</li> <li>FPIWPP3205B Match and join veneer</li> <li>FPIWPP3206A Laminate and veneer board surfaces <i>has been altered</i> and renumbered</li> <li>FPIWPP3206B Laminate and veneer board surfaces</li> <li>FPIWPP3207A Clip veneer <i>has been altered</i> and renumbered</li> <li>FPIWPP3207B Clip veneer</li> <li>FPIWPP3208A Punch peg holes in panels <i>has been altered</i> and renumbered</li> <li>FPIWPP3208B Punch peg holes in panels</li> <li>FPIWPP3209A Prepare resin and additives <i>has been altered</i> and renumbered</li> <li>FPIWPP3209B Prepare resin and additives</li> <li>FPIWPP3210A Laminate board <i>has been altered</i> and renumbered</li> </ul>

Version	Release Date	Comments
		<p>FPIWPP3210B Laminate board</p> <ul style="list-style-type: none"> <li> <p>FPIWPP3211A Maintain caul plates and screens <i>has been altered</i> and renumbered</p> <p>FPIWPP3211B Maintain caul plates and screens</p> </li> <li> <p>FPIWPP3212A Dry material <i>has been altered</i> and renumbered</p> <p>FPIWPP3212B Dry material</p> </li> <li> <p>FPIWPP3213A Heat treat material <i>has been altered</i> and renumbered</p> <p>FPIWPP3213B Heat treat material</p> </li> <li> <p>FPIWPP3214A Treat paper <i>has been altered</i> and renumbered</p> <p>FPIWPP3214B Treat paper</p> </li> <li> <p>FPIWPP3215A Cut paper <i>has been altered</i> and renumbered</p> <p>FPIWPP3215B Cut paper</p> </li> <li> <p>FPIWPP3216A Press material using the daylight process <i>has been altered</i> and renumbered</p> <p>FPIWPP3216B Press material using the daylight process</p> </li> <li> <p>FPIWPP3217A Process production effluent <i>has been altered</i> and renumbered</p> <p>FPIWPP3217B Process production effluent</p> </li> <li> <p>FPIWPP3218A Coordinate machining of panels <i>has been altered</i> and renumbered</p> <p>FPIWPP3218B Coordinate machining of panels</p> </li> <li> <p>FPIWPP3219A Blend and test binding mixes <i>has been altered</i> and renumbered</p> <p>FPIWPP3219B Blend and test binding mixes</p> </li> </ul>



Version	Release Date	Comments
		<ul style="list-style-type: none"> <li>FPIWPP3220A Plan and coordinate panel painting <i>has been altered</i> and renumbered FPIWPP3220B Plan and coordinate panel painting</li> <li>FPIWPP3221A Trim new panels to size <i>has been altered</i> and renumbered FPIWPP3221B Trim new panels to size</li> <li>FPIWPP3222A Press laminated ply <i>has been altered</i> and renumbered FPIWPP3222B Press laminated ply</li> <li>FPIWPP3223A Immunise veneer <i>has been altered</i> and renumbered FPIWPP3223B Immunise veneer</li> <li>FPIWPP3224A Profile sand products <i>has been altered</i> and renumbered FPIWPP3224B Profile sand products</li> <li>FPIWPP3225A Produce profile sanding shoes and wheels <i>has been altered</i> and renumbered FPIWPP3225B Produce profile sanding shoes and wheels</li> <li>FPIWPP3226A Operate a continuous press <i>has been altered</i> and renumbered FPIWPP3226B Operate a continuous press</li> <li>FPIWPP3227A Vacuum paint <i>has been altered</i> and renumbered FPIWPP3227B Vacuum paint</li> <li>FPIWPP3228A Dry wood flakes <i>has been altered</i> and renumbered FPIWPP3228B Dry wood flakes</li> </ul>

Version	Release Date	Comments
		<ul style="list-style-type: none"> <li>FPIWPP3229A Classify flake <i>has been altered</i> and renumbered FPIWPP3229B Classify flake</li> <li>FPIWPP3230A Produce decorative veneers <i>has been altered</i> and renumbered FPIWPP3230B Produce decorative veneers</li> <li>FPIWPP3231A Produce veneer from prepared flitches <i>has been altered</i> and renumbered FPIWPP3231B Produce veneer from prepared flitches</li> <li>FPIWPP4201A Plan and coordinate panel production <i>has been altered</i> and renumbered FPIWPP4201B Plan and coordinate panel production</li> <li>FPIWPP4202A Perform laboratory testing <i>has been altered</i> and renumbered FPIWPP4202B Perform laboratory testing</li> </ul> <p><b>Change to qualification:</b> The following qualification contains minor text editing:</p> <ul style="list-style-type: none"> <li>FPI30910 Certificate III in Timber Truss and Frame Design and Manufacture</li> </ul>
2	October 2010	<p><b>Changes to qualifications:</b></p> <p><b>New qualifications:</b></p> <ul style="list-style-type: none"> <li>FPI20710 Certificate II in Timber Truss and Frame Design and Manufacture</li> <li>FPI30910 Certificate III in Timber Truss and Frame Design and Manufacture</li> <li>FPI40310 Certificate IV in Timber Truss and Frame Manufacture</li> <li>FPI40410 Certificate IV in Timber Truss and Frame Design</li> <li>FPI50310 Diploma of Timber Truss and Frame Manufacture</li> <li>FPI50410 Diploma of Timber Truss and Frame Design</li> </ul> <p><b>Changes to units of competency:</b></p>

Version	Release Date	Comments
		<p>The following new units of competency have been added to the above qualifications:</p> <ul style="list-style-type: none"> <li>• FPICOT2235A Assess timber for manufacturing potential</li> <li>• FPITMM2203A Read and interpret timber truss, floor and/or frame fabrication plans</li> <li>• FPITMM3204A Interpret designs to prepare timber roof truss drawings and documents using computers</li> <li>• FPITMM3205A Interpret designs to prepare timber floor system drawings and documents using computers</li> <li>• FPITMM3206A Interpret designs to prepare timber wall frame drawings and documents using computers</li> <li>• FPITMM3207A Set up timber floor trusses</li> <li>• FPITMM4205A Prepare and advise on a broad range of timber roof truss details using computers</li> <li>• FPITMM4206A Prepare and advise on a broad range of timber floor system details using computers</li> <li>• FPITMM4207A Prepare and advise on a broad range of timber wall frame details using computers</li> </ul> <p>Minor changes to the following units of competency:</p> <ul style="list-style-type: none"> <li>• FPICOT3218A Quote and interpret from manufactured timber product plans <i>has been altered</i> and renumbered FPICOT3218B</li> <li>• FPICOT3220A Quote and interpret from computerised timber manufactured product plans <i>has been altered</i> and renumbered FPICOT3220B</li> <li>• FPICOT4202A Design timber structures <i>Has been altered</i> and renumbered FPICOT4202B</li> </ul> <p>Major changes to the following chainsaw units of competency:</p> <ul style="list-style-type: none"> <li>• FPICOT2237A <b>Maintain chainsaws</b> replaces FPICOT2204B <b>Maintain chainsaws</b></li> <li>• <b>FPICOT2238A Cut materials with a hand-held chainsaw</b> replaces <b>FPICOT2206B Cross cut materials with a hand-held chainsaw</b></li> </ul>

Version	Release Date	Comments
		<ul style="list-style-type: none"> <li>• <b>FPICOT2239A Trim and cut felled trees</b> replaces <b>FPICOT2221B Trim and cross cut felled trees</b></li> <li>• <b>FPIHAR2207A Trim and cut harvested trees</b> replaces <b>FPIHAR2201B Trim and cross cut harvested trees</b></li> </ul> <p>Major changes to the following Diploma units of competency:</p> <ul style="list-style-type: none"> <li>• <b>FPIFGM5210A Manage tending operations in a native forest</b> replaces <b>FPIFGM5202A Manage tending operations in a native forest</b></li> <li>• <b>FPIFGM5211A Coordinate stand nutrition</b> <i>replaces</i> <b>FPIFGM5203A Coordinate stand nutrition</b></li> <li>• <b>FPIFGM5212A Manage genetic resources</b> <i>replaces</i> <b>FPIFGM5204A Manage genetic resources</b></li> <li>• <b>FPIFGM5213A Coordinate plantation tending operations</b> <i>replaces</i> <b>FPIFGM5205A Coordinate plantation tending operation</b></li> <li>• <b>FPIFGM5214A Develop a native forest regeneration plan</b> <i>replaces</i> <b>FPIFGM5206A Develop a native forest regeneration plan</b></li> <li>• <b>FPIFGM5215A Breed trees</b> <i>replaces</i> <b>FPIFGM5207A Breed trees</b></li> <li>• <b>FPIFGM5216A Manage coupe planning</b> <i>replaces</i></li> </ul>

Version	Release Date	Comments
		<p><b>FPIFGM5209A Manage coupe planning</b></p> <p><b>Additional imported units (within new Truss and Frame qualifications):</b></p> <ul style="list-style-type: none"> <li>• BSBCUS402A Address customer needs</li> <li>• BSBMKG501B Identify and evaluate marketing opportunities</li> <li>• BSBPMG407A Apply risk management techniques</li> <li>• CPCCBC4001A Apply building codes and standards to the construction process for low rise building projects</li> <li>• CPCCBC4004A Identify and produce estimated costs for building and construction projects</li> <li>• CPCCBC4005A Produce labour and material schedules for ordering</li> <li>• CPCCBC4014A Prepare simple building sketches and drawings</li> <li>• CPCCBC4024A Resolve business disputes</li> <li>• CPCCCA3006A Erect roof trusses</li> <li>• CPCCCM1005A Carry out measurements and calculations</li> <li>• CPCCLDG3001A Licence to perform dogging</li> <li>• CPCCOHS2001A Apply OHS requirements, policies and procedures in the construction industry</li> <li>• CPCSUS4001A Implement and monitor environmentally sustainable work practices</li> <li>• CPCCSV5010A Interact with clients in a regulated environment</li> <li>• CPCCSV5011A Apply building codes and standard to residential buildings</li> <li>• CPCCSV5012A Assess timber-framed designs for one and two storey buildings</li> <li>• CPCCSV5015A Assess structural requirements for domestic scale buildings</li> <li>• CUVDSP15B Research and apply techniques for application to spatial design</li> <li>• MSACMT230A Apply cost factors to work practices</li> <li>• MSACMT250A Monitor process capability</li> <li>• MSACMT251A Apply quality standards</li> <li>• MSACMT432A Analyse manual handling processes</li> <li>• MSACMT450A Undertake process capability improvements</li> <li>• MSACMT460A Facilitate the use of planning software systems in manufacturing</li> <li>• MSACMT451A Mistake proof a production process</li> </ul>

Version	Release Date	Comments
		<ul style="list-style-type: none"> <li>• MSACMT452A Apply statistics to processes in manufacturing</li> <li>• MSACMT482A Assist in implementing a proactive maintenance strategy</li> <li>• MSACMT630A Optimise cost of product</li> <li>• MSACMT631A Undertake value analysis of product costs in terms of customer requirements</li> <li>• MSACMT662A Develop a documentation control strategy for a manufacturing enterprise</li> <li>• MSACMT670A Develop and manage sustainable energy practices</li> <li>• MSACMT675A Facilitate the development of a new product</li> <li>• MSAPMOPS404A Co-ordinate maintenance</li> <li>• MSAPMSUP390A Use structured problem solving tools</li> </ul>
1.2	February 2010	<p><b>Update of imported units:</b> These updates are reflected in the imported units list and each of the 18 qualifications. Refer to Mapping to Previous Training Package document.</p> <p><b>Additional imported units:</b> The following units of competency have been added to the Elective units in FPI30205 Certificate III in Harvesting and Haulage:</p> <ul style="list-style-type: none"> <li>• TLIE207C Estimate/calculate mass, area and quantify dimensions</li> <li>• TLID107C Shift materials safely using manual handling methods</li> <li>• TLIF1007C Apply fatigue management strategies</li> <li>• TLIH107D Interpret road maps and navigate pre-determined routes</li> <li>• TLILIC1609A Licence to drive heavy rigid vehicle</li> <li>• TLILIC1709A Licence to drive heavy combination vehicle</li> <li>• TLILIC1809A Licence to drive multi-combination vehicle</li> </ul> <p>The following unit of competency has been added to the Elective units in FPI20205 Certificate II in Harvesting and Haulage and FPI30205 Certificate III in Harvesting and Haulage:</p> <ul style="list-style-type: none"> <li>• TLID3307C Operate a vehicle-mounted loading crane <i>replaces</i> CPCCCM3002A Operate a truck mounted loading crane</li> </ul>

Version	Release Date	Comments
		<p>Minor changes to machine operator units of competency:</p> <ul style="list-style-type: none"> <li>FPIHAR3203A has been altered and renumbered FPIHAR3203B</li> <li>FPIHAR3204A has been altered and renumbered FPIHAR3204B</li> <li>FPIHAR3205A has been altered and renumbered FPIHAR3205B</li> <li>FPIHAR3206A has been altered and renumbered FPIHAR3206B</li> <li>FPIHAR3207A has been altered and renumbered FPIHAR3207B</li> <li>FPIHAR3208A has been altered and renumbered FPIHAR3208B</li> <li>FPIHAR3209A has been altered and renumbered FPIHAR3209B</li> <li>FPIHAR3210A has been altered and renumbered FPIHAR3210B</li> <li>FPIHAR3214A has been altered and renumbered FPIHAR3214B</li> <li>FPIHAR3215A has been altered and renumbered FPIHAR3215B</li> </ul> <p>Addition of 10 <b>Skill Sets for Machine Operators</b> to cover the operation of: crawler/dozer, skidder, loader, forwarder, feller buncher, boom delimber, excavator, mechanical processor, single grip harvester, heavy production mobile chipper</p> <p>Addition of Log truck driver descriptor to FPI30205 Certificate III in Harvesting and Haulage</p>
1.1	October 2009	<p><b>Update of imported units:</b> These updates are reflected in the imported units list and each of the 18 qualifications. Refer to Mapping to Previous Training Package document.</p> <p><b>Additional imported units:</b> The following new units of competency have been added to the qualifications:</p> <p>To enable national licensing requirements to be met:</p> <ul style="list-style-type: none"> <li>TLILIC108A Licence to operate a forklift</li> </ul>

Version	Release Date	Comments
		<p>To enable the delivery of TAA Skill Sets the following units of competency have been added to the Certificate IV in Forest Operations and Certificate IV in Timber Processing:</p> <ul style="list-style-type: none"> <li>• TAAASS404B Participate in assessment validation</li> <li>• TAAENV401B Work effectively in vocational education and training</li> <li>• BSBCMM401A Make a presentation</li> </ul> <p>The following unit of competency has been added to the Certificate III in Harvesting and Haulage:</p> <ul style="list-style-type: none"> <li>• HLTF302A Provide first aid in a remote situation</li> </ul> <p>The following first aid units of competency have been replaced:</p> <ul style="list-style-type: none"> <li>• <b>HLTF301B Apply first aid</b> <i>replaces</i> <b>FPICOR2206A Apply basic first aid</b></li> <li>• <b>HLTF402B Apply advanced first aid</b> <i>replaces</i> <b>BSBCMN319A Apply advanced first aid</b></li> <li>• <b>HLTF403A Manage first aid in the workplace</b> <i>replaces</i> <b>BSBCMN415A Manage first aid policy</b> <b>BSBCMN320A Maintain first aid equipment and resources</b></li> </ul> <p><b>Changes to qualifications:</b> Minor change to Certificate I in Forest and Forest Products packaging rules. The change enables unit(s) of competency from AQF levels 1 or 2 from other nationally endorsed Training Packages to be selected.</p> <p>Employability Skills Qualification Summaries added to all qualifications.</p> <p><b>Changes to units of competency:</b></p> <ul style="list-style-type: none"> <li>• FPICOT2204A has been altered and renumbered FPICOT2204B</li> </ul>



Version	Release Date	Comments
		<ul style="list-style-type: none"> <li>• FPICOT2206A has been altered and renumbered FPICOT2206B</li> <li>• FPICOT2221A has been altered and renumbered FPICOT2221B</li> <li>• FPIHAR2201A has been altered and renumbered FPIHAR2201B</li> </ul>

## Imprint Page

Not applicable.

## Preliminary Information

### Important Note to Users

Training Packages are not static documents; they are amended periodically to reflect the latest industry practices and are version controlled. It is essential that the latest version is always used.

### Check the version number before commencing training or assessment

This Training Package is Version 3 - check whether this is the latest version by going to the National Training Information Service ([www.ntis.gov.au](http://www.ntis.gov.au)) and locating information about the Training Package. Alternatively, contact *ForestWorks* at [www.forestworks.com.au](http://www.forestworks.com.au) to confirm the latest version number.

### Explanation of version number conventions

The primary release Training Package is Version 3. When changes are made to a Training Package, sometimes the version number is changed and sometimes it is not, depending on the extent of the change. When a Training Package is reviewed it is considered to be a new Training Package for the purposes of version control, and is Version 1. Do not confuse the version number with the Training Package's national code (which remains the same during its period of endorsement).

### Explanation of the review date

The review date (shown on the title page and in the footer of each page) indicates when the Training Package is expected to be reviewed in the light of changes such as changing technologies and circumstances. The review date is not an expiry date. Endorsed Training Packages and their components remain current until they are reviewed or replaced.

## List of AQF Qualifications

### List of AQF Qualifications

Qualification Code	Title
Code	Title

<b>Qualification Code</b>	<b>Title</b>
FPI10105	Certificate I in Forest and Forest Products
FPI20105	Certificate II in Forest Growing and Management
FPI20205	Certificate II in Harvesting and Haulage
FPI20305	Certificate II in Sawmilling and Processing
FPI20405	Certificate II in Wood Panel Products
FPI20505	Certificate II in Timber Manufactured Products
FPI20605	Certificate II in Timber Merchandising
FPI20710	Certificate II in Timber Truss and Frame Design and Manufacture
FPI30105	Certificate III in Forest Growing and Management
FPI30205	Certificate III in Harvesting and Haulage
FPI30305	Certificate III in Sawmilling and Processing
FPI30405	Certificate III in Wood Panel Products
FPI30505	Certificate III in Timber Manufactured Products
FPI30605	Certificate III in Timber Merchandising
FPI30705	Certificate III in Sawdoctoring
FPI30805	Certificate III in Woodmachining
FPI30910	Certificate III Timber Truss and Frame Design and Manufacture
FPI40105	Certificate IV in Forest Operations
FPI40205	Certificate IV in Timber Processing
FPI40310	Certificate IV Timber Truss and Frame Manufacture
FPI40410	Certificate IV Timber Truss and Frame Design
FPI50105	Diploma of Forest and Forest Products
FPI50310	Diploma of Timber Truss and Frame Manufacture
FPI50410	Diploma of Timber Truss and Frame Design

Qualification Code	Title
FPI60111	Advanced Diploma of Forest Industry Sustainability

## FPI units

Note: There are no pre-requisite requirements for any FPI unit of competency.

Code	Name
FPICOR2201B	Work effectively in the forest and forest products industry
FPICOR2202B	Communicate and interact effectively in the workplace
FPICOR2203B	Follow environmental care procedures
FPICOR2204B	Follow fire prevention procedures
FPICOR2205B	Follow OHS policies and procedures
FPICOR2207B	Maintain quality and product care
FPICOR3201B	Implement safety, health and environment policies and procedures
FPICOR3202B	Conduct quality and product care procedures
FPICOR3203B	Evaluate fire potential and prevention
FPICOR3204B	Visually assess materials
FPICOR4201B	Monitor safety, health and environment policies and procedures
FPICOR4202B	Monitor and review forestry operations
FPICOR4203B	Monitor quality and product care procedures
FPICOR6201A	Manage sustainability in the workplace
FPICOR6202A	Implement practices to maximise value from wood residues
FPICOT2201B	Stack and bind material
FPICOT2202B	Rack material
FPICOT2203B	Finish products

<b>Code</b>	<b>Name</b>
FPICOT2205B	Tail out materials
FPICOT2207B	Dress boards and timber
FPICOT2208B	Resaw boards and timber
FPICOT2209B	Produce finger jointed timber
FPICOT2210B	Tally material
FPICOT2211B	Produce pointed timber products
FPICOT2212B	Grade hardwood sawn and milled products
FPICOT2213B	Grade softwood sawn and milled products
FPICOT2214B	Grade cypress sawn and milled products
FPICOT2215B	Visually stress grade hardwood
FPICOT2216B	Visually stress grade softwood
FPICOT2217B	Visually stress grade cypress
FPICOT2218B	Cross cut materials with a fixed saw
FPICOT2219B	Use hand-held tools
FPICOT2220B	Select trees for tending operations
FPICOT2222B	Produce laminated beams
FPICOT2223B	Segregate and sort logs
FPICOT2224B	Band edges of panels
FPICOT2225B	Chip or flake wood
FPICOT2226B	Debark logs mechanically
FPICOT2227B	Process orders and despatch products
FPICOT2228B	Store materials
FPICOT2229B	Dock material to length
FPICOT2230B	Assemble products

<b>Code</b>	<b>Name</b>
FPICOT2231B	Pack products
FPICOT2232B	Cut material to shape using a saw
FPICOT2233B	Navigate in forest areas
FPICOT2234B	Operate 4x4 vehicle
FPICOT2235A	Assess timber for manufacturing potential
FPICOT2237A	Maintain chainsaws
FPICOT2238A	Cut materials with a hand-held chainsaw
FPICOT2239A	Trim and cut felled trees
FPICOT3201B	Hand sharpen knives and blades
FPICOT3202B	Navigate in remote or trackless areas
FPICOT3203B	Weigh loads
FPICOT3204B	Prepare and interpret sketches and drawings
FPICOT3205B	Dress boards using multi-headed machines
FPICOT3206B	Cut material using high speed optimiser
FPICOT3207B	Set up, operate and maintain finger jointing operations
FPICOT3208B	Test strength of joints
FPICOT3209B	Set up, operate and maintain end matching operations
FPICOT3210B	Sharpen cutting tools
FPICOT3211B	Maintain sawdoctoring tools
FPICOT3212B	Replace saws, blades and guides
FPICOT3213B	Manufacture cutting tools
FPICOT3214B	Take off material quantities
FPICOT3215B	Swage and shape saw blades
FPICOT3216B	Assess and maintain saw performance

<b>Code</b>	<b>Name</b>
FPICOT3217B	Assess and maintain cutter performance
FPICOT3218B	Quote and interpret from manufactured timber product plans
FPICOT3219B	Produce standard truss or frame plans and details using computers
FPICOT3220B	Quote and interpret from computerised timber manufactured product plans
FPICOT3221B	Rehabilitate tracks, quarries and landings
FPICOT3222B	Present forestry information and interpretations programs
FPICOT3223B	Grade and mark logs
FPICOT3224B	Plan and monitor equipment maintenance
FPICOT3225B	Mechanically stress grade timber
FPICOT3226B	Shift forestry logs using trucks
FPICOT3227B	Receive and measure logs
FPICOT3228B	Plane/sand panels
FPICOT3229B	Mechanically stress grade panels
FPICOT3230B	Operate automated stacking equipment
FPICOT3231B	Operate steam boiler
FPICOT3232B	Operate heat plant
FPICOT3233B	Sharpen and align blades and knives
FPICOT3234B	Cut material using CNC sizing machines
FPICOT3235B	Machine material using CNC machining and processing centres
FPICOT3236B	Coordinate stock control procedures
FPICOT3237B	Produce templates
FPICOT3238B	Operate a pole saw
FPICOT3239B	Create drawings using computer aided design systems
FPICOT3240B	Grade heavy structural/engineered products

<b>Code</b>	<b>Name</b>
FPICOT3241B	Assemble timber wall frames
FPICOT3242B	Lay up timber roof trusses
FPICOT3243B	Operate a truss press
FPICOT3244B	Cut material to profile
FPICOT3245B	Grade, sort and mark material
FPICOT3246B	Test heavy structural/engineered products
FPICOT3247B	Select timber for forestry operations
FPICOT3248A	Dry timber in solar assisted kilns
FPICOT3249A	Select timber preservation techniques
FPICOT3250A	Prepare timber to meet import/export compliance requirements
FPICOT3251A	Promote the carbon benefits of wood products
FPICOT3252A	Use environmental care procedures to undertake fire salvage operations
FPICOT3253A	Convert timber residue into products for further use
FPICOT3254A	Implement environmentally sustainable work practices in the work area/work site
FPICOT4201B	Produce complex truss and frame plans and details using computers
FPICOT4202B	Design timber structures
FPICOT4203B	Plan and coordinate product assembly
FPICOT4204B	Schedule and coordinate load shifting
FPICOT4205B	Coordinate log debarking operations
FPICOT4206B	Plan and coordinate boiler operations
FPICOT4207B	Plan and coordinate heat plant operations
FPICOT5201B	Implement sustainable forestry practices
FPICOT5202B	Manage forestry information and interpretations programs
FPICOT5203B	Manage installation and commissioning of equipment

<b>Code</b>	<b>Name</b>
FPICOT5204B	Organise enterprise maintenance programs
FPICOT5205A	Develop biohazard contingency plans
FPICOT5206A	Implement Forestry Chain of Custody certification system
FPICOT5207A	Implement sustainability in the workplace
FPICOT5208A	Build and maintain community relationships
FPICOT5209A	Manage tree harvesting to minimise environmental impact
FPICOT6201A	Manage community engagement
FPICOT6202A	Develop and manage a Forestry Chain of Custody certification process for the workplace
FPICOT6203A	Develop engineered timber products to meet energy efficient building
FPICOT6204A	Use carbon accounting to estimate emissions in the workplace
FPICOT6205A	Prepare an enterprise carbon management report
FPICOT6206A	Develop forest management systems and processes
FPIFGM2201B	Collect seed
FPIFGM2202B	Prepare seedbed
FPIFGM2203B	Plant trees by hand
FPIFGM2204B	Plant trees mechanically
FPIFGM2205B	Prune trees
FPIFGM2206B	Collect data or samples for assessment
FPIFGM2207B	Undertake brushcutting operations
FPIFGM2208A	Fall trees manually (basic)
FPIFGM2209B	Cut, sort and set cuttings
FPIFGM2210B	Implement animal pest control procedures
FPIFGM2211B	Detect fires
FPIFGM2212B	Graft cuttings



<b>Code</b>	<b>Name</b>
FPIFGM2213B	Process seed
FPIFGM2214B	Maintain visitor sites
FPIFGM2215B	Measure trees
FPIFGM3201B	Manage seed collection
FPIFGM3202B	Extract seed
FPIFGM3203B	Conduct an instrument survey
FPIFGM3204A	Fall trees manually (intermediate)
FPIFGM3205A	Fall trees manually (advanced)
FPIFGM3206B	Plan and implement non-commercial thinning operations
FPIFGM3207B	Coordinate stem improvement
FPIFGM3208B	Perform complex 4x4 operations
FPIFGM3209B	Construct and maintain forest roads and tracks
FPIFGM3210B	Patrol forest
FPIFGM3211B	Manage coppice stems
FPIFGM4201B	Implement a forest establishment plan
FPIFGM4202B	Manage stand health
FPIFGM4203B	Design plantations
FPIFGM4204B	Conduct a pests and diseases assessment
FPIFGM4205B	Monitor regeneration rates
FPIFGM4206B	Conduct a wood volume and yield assessment
FPIFGM4207B	Conduct a forest site assessment
FPIFGM4208B	Plan a quarry
FPIFGM4209B	Interpret and use aerial photographs for forest management
FPIFGM4210B	Prepare a tender

<b>Code</b>	<b>Name</b>
FPIFGM5201B	Plan and manage an inventory program
FPIFGM5208B	Manage road construction and maintenance
FPIFGM5210A	Manage tending operations in a native forest
FPIFGM5211A	Coordinate stand nutrition
FPIFGM5212A	Manage genetic resources
FPIFGM5213A	Coordinate plantation tending operations
FPIFGM5214A	Develop a native forest regeneration plan
FPIFGM5215A	Breed trees
FPIFGM5216A	Manage coupe planning
FPIFGM5217A	Promote plantations as a sustainable form of land use
FPIFGM5218A	Undertake carbon storage sampling of forests and plantations
FPIFGM6201A	Plan a biochar storage system for carbon capture and storage
FPIFGM6202A	Manage tree inventory for sustainable tree management
FPIHAR2202A	Harvest trees manually (basic)
FPIHAR2203B	Hook up felled logs using cables (choker)
FPIHAR2204B	Perform landing duties (chaser)
FPIHAR2205B	Conduct mobile splitting operations
FPIHAR2206B	Operate a mobile chipper/mulcher
FPIHAR2207A	Trim and cut harvested trees
FPIHAR3201B	Monitor log recovery (rigging slinger)
FPIHAR3202A	Harvest trees manually (intermediate)
FPIHAR3206C	Conduct forwarder operations
FPIHAR3207C	Conduct feller buncher operations
FPIHAR3208C	Conduct boom delimber operations

<b>Code</b>	<b>Name</b>
FPIHAR3210C	Conduct mechanical processor operations
FPIHAR3211B	Operate yarder
FPIHAR3212A	Harvest trees manually (advanced)
FPIHAR3213B	Conduct mechanically assisted tree falling operations
FPIHAR3214C	Operate a single grip harvester
FPIHAR3215C	Operate a heavy production mobile chipper
FPIHAR3216A	Conduct forestry operations using crawler tractor
FPIHAR3217A	Conduct skidder operations
FPIHAR3218A	Conduct loader operations
FPIHAR3219A	Conduct excavator operations with grabs
FPIHAR4201B	Apply tree jacking techniques
FPIHAR4202B	Coordinate log recovery (hook tender)
FPIHAR4203B	Design log landings and snig tracks
FPIHAR4204B	Plan and coordinate fire salvage operations
FPIHAR4205B	Implement harvesting plans
FPIHAR5201B	Design harvesting plans
FPISAW2201B	Grade round poles and debarked logs
FPISAW2202B	Sort boards manually
FPISAW2203B	Sort boards mechanically
FPISAW2204B	Dock boards with mechanical feed
FPISAW2205B	Assemble materials using nail plates
FPISAW2206B	De-stack seasoning racks
FPISAW2207B	Round softwood logs
FPISAW2208B	Split wood products

<b>Code</b>	<b>Name</b>
FPISAW2209B	Dismantle, transport and assemble hand portable sawmill
FPISAW2210B	Prepare for timber treatment operations
FPISAW3201B	Treat timber
FPISAW3202B	Produce sawn green boards
FPISAW3203B	Break down logs
FPISAW3204B	Saw flitches and cants
FPISAW3205B	Dry hardwood
FPISAW3206B	Dry softwood
FPISAW3207B	Sharpen band saws
FPISAW3208B	Sharpen circular saws
FPISAW3209B	Align sawing production systems
FPISAW3210B	File and set saws
FPISAW3211B	Recondition guides
FPISAW3212B	Sharpen tipped circular saws
FPISAW3213B	Level and tension circular saws
FPISAW3214B	Join band saw blades
FPISAW3215B	Screen wood chips
FPISAW3216B	Transfer wood chips
FPISAW3217B	Hard face saw teeth
FPISAW3218B	Replace tungsten tips
FPISAW3219B	Replace stellite tips
FPISAW3220B	Maintain wide band saw blades
FPISAW3221B	Profile saw blanks
FPISAW3222B	Recondition band mill wheels

<b>Code</b>	<b>Name</b>
FPISAW3223B	Assess wood chips
FPISAW3224B	Coordinate and monitor the wood chip stockpile
FPISAW3225B	Maintain frame saw blades
FPISAW3226B	Saw logs using CNC optimising systems
FPISAW3227B	Select and saw logs in multi-species operations
FPISAW3228B	Apply principles of blade design to sawing procedures
FPISAW3229B	Operate a portable sawmill
FPISAW4201B	Plan and monitor timber treatment plant operations
FPISAW4202B	Plan and monitor saw log operations
FPISAW4203B	Coordinate timber drying operations
FPISAW4204B	Plan and monitor board conversion
FPITMM2201B	Cut material to length and angles
FPITMM2202B	Machine material
FPITMM2203A	Read and interpret timber truss, floor and/or frame fabrication plans
FPITMM3201B	Convert timber
FPITMM3202B	Manufacture using joinery machines
FPITMM3203B	Estimate and cost job
FPITMM3204A	Interpret designs to prepare timber roof truss drawings and documents using computers
FPITMM3205A	Interpret designs to prepare timber floor system drawings and documents using computers
FPITMM3206A	Interpret designs to prepare timber wall frame drawings and documents using computers
FPITMM3207A	Set up timber floor trusses
FPITMM4201B	Construct prototypes and samples
FPITMM4202B	Diagnose and calculate production costs

<b>Code</b>	<b>Name</b>
FPITMM4203B	Install and commission CNC software
FPITMM4204B	Sample and test products to specifications
FPITMM4205A	Prepare and advise on a broad range of timber roof truss details using computers
FPITMM4206A	Prepare and advise on a broad range of timber floor system details using computers
FPITMM4207A	Prepare and advise on a broad range of timber wall frame details using computers
FPITMM5201B	Assess product feasibility of designs
FPITMM5202B	Develop, trial and evaluate prototypes
FPITMM5203B	Generate and transfer complex computer-aided drawings and specifications
FPITMM5204B	Manage product design
FPITMM5205B	Optimise CNC operations
FPITMM5206B	Plan production
FPIWPP2201B	Cut panels
FPIWPP2202B	Surface treat raw board
FPIWPP2203B	Repair veneer and ply
FPIWPP2204B	Repair veneer mechanically
FPIWPP2205B	Prepare chip or fibre blends
FPIWPP2206B	Prepare veneer for ply
FPIWPP2207B	Scarf edges of veneer
FPIWPP2208B	Cut veneer
FPIWPP2209B	Saw products from continuous ply
FPIWPP2210B	Cut panels to profile
FPIWPP2211B	Move material by transfer equipment

<b>Code</b>	<b>Name</b>
FPIWPP3201B	Produce veneer from debarked logs
FPIWPP3202B	Paint panels
FPIWPP3203B	Produce fibre from chips
FPIWPP3204B	Form board
FPIWPP3205B	Match and join veneer
FPIWPP3206B	Laminate and veneer board surfaces
FPIWPP3207B	Clip veneer
FPIWPP3208B	Punch peg holes in panels
FPIWPP3209B	Prepare resin and additives
FPIWPP3210B	Laminate board
FPIWPP3211B	Maintain caul plates and screens
FPIWPP3212B	Dry material
FPIWPP3213B	Heat treat material
FPIWPP3214B	Treat paper
FPIWPP3215B	Cut paper
FPIWPP3216B	Press material using the daylight process
FPIWPP3217B	Process production effluent
FPIWPP3218B	Coordinate machining of panels
FPIWPP3219B	Blend and test binding mixes
FPIWPP3220B	Plan and coordinate panel painting
FPIWPP3221B	Trim new panels to size
FPIWPP3222B	Press laminated ply
FPIWPP3223B	Immunise veneer
FPIWPP3224B	Profile sand products

<b>Code</b>	<b>Name</b>
FPIWPP3225B	Produce profile sanding shoes and wheels
FPIWPP3226B	Operate a continuous press
FPIWPP3227B	Vacuum paint
FPIWPP3228B	Dry wood flakes
FPIWPP3229B	Classify flake
FPIWPP3230B	Produce decorative veneers
FPIWPP3231B	Produce veneer from prepared flitches
FPIWPP4201B	Plan and coordinate panel production
FPIWPP4202B	Perform laboratory testing

## **Imported units**

### **Imported units**

<b>Code</b>	<b>Name</b>
BSBADM311A	Maintain business resources
BSBADM502B	Manage meetings
BSBAUD501B	Initiate a quality audit
BSBCMM301A	Process customer complaints
BSBCMM401A	Make a presentation
BSBCUS301A	Deliver and monitor a service to customers
BSBCUS401A	Coordinate implementation of customer service strategies
BSBCUS402A	Address customer needs
BSBCUS501B	Manage quality customer service
BSBFIA301A	Maintain financial records
BSBFIM501A	Manage budgets and financial plans



<b>Code</b>	<b>Name</b>
BSBFLM303C	Contribute to effective workplace relationships
BSBFLM305C	Support operational plan
BSBFLM312C	Contribute to team effectiveness
BSBINM201A	Process and maintain workplace information
BSBINM301A	Organise workplace information
BSBINM401A	Implement workplace information system
BSBINM501A	Manage an information or knowledge management system
BSBINN201A	Contribute to workplace innovation
BSBINN502A	Build and sustain an innovative work environment
BSBINN601B	Manage organisational change
BSBINN801A	Lead innovative thinking and practice
BSBITS401A	Maintain business technology
BSBITU201A	Produce simple word processed documents
BSBITU306A	Design and produce business documents
BSBLED401A	Develop teams and individuals
BSBLED501A	Develop a workplace learning environment
BSBMGT402A	Implement operational plan
BSBMGT403A	Implement continuous improvement
BSBMGT502B	Manage people performance
BSBSUS501A	Develop workplace policy and procedures for sustainability
BSBMGT515A	Manage operational plan
BSBMGT516C	Facilitate continuous improvement
BSBMGT608C	Manage innovation and continuous improvement
BSBMKG501B	Identify and evaluate marketing opportunities

Code	Name
BSBOHS504B	Apply principles of OHS risk management
BSBPMG407A	Apply risk management techniques
BSBPMG408A	Apply contract and procurement procedures
BSBPMG510A	Manage projects
BSBREL701A	Develop and cultivate collaborative partnerships and relationships
BSBRES401A	Analyse and present research information
BSBRSK401A	Identify risk and apply risk management processes
BSBRSK501A	Manage risk
BSBSMB404A	Undertake small business planning
BSBSMB406A	Manage small business finances
BSBSUS501A	Develop workplace policy and procedures for sustainability
BSBWOR204A	Use business technology
BSBWOR301A	Organise personal work priorities and development
BSBWOR401A	Establish effective workplace relationships
BSBWOR402A	Promote team effectiveness
BSBWOR501B	Manage personal work priorities and professional development
BSBWOR502B	Ensure team effectiveness
BSBWRK506A	Coordinate research and analysis
BSBWRT401A	Write complex documents
CPCCBBC4001A	<b>Apply building codes and standards to the construction process for low rise building projects</b>
CPCCBBC4004A	<b>Identify and produce estimated costs for building and construction projects</b>
CPCCBBC4005A	<b>Produce labour and material schedules for ordering</b>
CPCCBBC4014A	<b>Prepare simple building sketches and drawings</b>

<b>Code</b>	<b>Name</b>
CPCCBC4024A	<b>Resolve business disputes</b>
CPCCCA3006A	Erect roof trusses
CPCCCM1005A	<b>Carry out measurements and calculations</b>
CPCCLDG3001A	<b>Licence to perform dogging</b>
CPCCOHS2001A	Apply OHS requirements, policies and procedures in the construction industry
CPCSUS4001A	<b>Implement and monitor environmentally sustainable work practices</b>
CPCCSV5010A	<b>Interact with clients in a regulated environment</b>
CPCCSV5011A	Apply building codes and standards to residential buildings
CPCCSV5012A	Assess timber-framed designs for one and two storey buildings
CPCCSV5015A	Assess structural requirements for domestic scale buildings
CPPSEC3007A	Maintain security of environment
CUVDSP15B	Research and apply techniques for application to spatial design
HLTFA301B	Apply first aid
HLTFA302A	Provide first aid in remote situation
HLTFA402B	Apply advanced first aid
HLTFA403A	Manage first aid in the workplace
ICAU3126B	Use advanced features of computer applications
ICTSUS7235A	Use ICT to improve sustainability outcomes
LGACOM401A	Administer contracts
LGACOM409A	Prepare tender documentation
LGACOM502B	Devise and conduct community consultations
LGAEHRR504C	Implement public environmental health education programs
LGAPLEM404A	Prepare and present geographic information systems data

<b>Code</b>	<b>Name</b>
LGAPLEM612B	Protect heritage and cultural assets
LGAWORK212A	Perform field support duties in a roadwork environment
LMFGG2008B	Glaze/reglaze residential windows and doors
MEM05004C	Perform routine oxyacetylene welding
MEM05006B	Perform brazing and/or silver soldering
MEM05049B	Perform routine gas tungsten arc welding
MEM05050B	Perform routine gas metal arc welding
MSACMC410A	Lead change in a manufacturing environment
MSACMS200A	Apply competitive manufacturing practices
MSACMS400A	Implement a competitive manufacturing system
MSACMS600A	Develop a competitive manufacturing system
MSACMS603A	Develop manufacturing related business plans
MSACMT230A	Apply cost factors to work practices
MSACMT250A	Monitor process capability
MSACMT251A	Apply quality standards
MSACMT432A	Analyse manual handling processes
MSACMT450A	Undertake process capability improvements
MSACMT451A	Mistake proof a production process
MSACMT452A	Apply statistics to processes in manufacturing
MSACMT460A	Facilitate the use of planning software systems in manufacturing
MSACMT482A	Assist in implementing a proactive maintenance strategy
MSACMT630A	Optimise cost of product
MSACMT631A	Undertake value analysis of product costs in terms of customer requirements
MSACMT662A	Develop a documentation control strategy for a manufacturing

<b>Code</b>	<b>Name</b>
	enterprise
MSACMT670A	Develop and manage sustainable energy practices
MSACMT671A	Develop and manage sustainable environmental practices
MSACMT675A	Facilitate the development of a new product
MSAPMOPS404A	Co-ordinate maintenance
MSAPMSUP390A	Use structured problem solving tools
PSPGOV521A	Collect statistical data
PSPGOV602B	Establish and maintain strategic networks
PSPMNGT604B	Manage change
PSPMNGT703A	Lead and influence change
PSPPOL603A	Manage policy implementation
PSPREG603A	Manage and lead inspection and monitoring programs
PUACOM012B	Liaise with media at a local level
PUAEQU001B	Prepare, maintain and test response equipment
PUAFIR201B	Prevent injury
PUAFIR204B	Respond to wildfire
PUAFIR209B	Work safely around aircraft
PUAFIR303B	Suppress wildfire
PUAFIR309B	Operate pumps
PUAFIR406B	Develop prescribed burning plans
PUAFIR407B	Conduct prescribed burning
PUAFIR501B	Conduct fire investigation and analysis activities
PUAFIR509B	Implement prevention strategies
PUALAW001B	Protect and preserve incident scene
PUALAW002B	Conduct initial investigation at incident scene

<b>Code</b>	<b>Name</b>
PUAOHS002B	Maintain safety at an incident scene
PUAOPE001B	Supervise response
PUAOPE002B	Operate communications systems and equipment
PUAOPE005B	Manage a multi-team response
PUAOPE007B	Command agency personnel within a multi-agency emergency response
PUATEA001B	Work in a team
PUATEA002B	Work autonomously
RIIHAN308A	Load and unload plant
RIIMPO315A	Conduct tractor operations
RIIMPO317A	Conduct roller operations
RIIMPO318A	Conduct skid steer loader operations
RIIMPO319A	Conduct backhoe/loader operations
RIIMPO320A	Conduct civil construction excavator operations
RIIMPO321A	Conduct civil construction wheel loader operations
RIIMPO322A	Conduct civil construction tracked front end loader operations
RIIMPO323A	Conduct civil construction dozer operations
RIIMPO324A	Conduct civil construction grader operations
RIIOHS205A	Control traffic with stop-slow bat
RIIVEH304A	Conduct tip truck operations
RIIVEH305A	Operate and maintain a four wheel drive vehicle
RTC2026A	Undertake propagation activities
RTC2209A	Install, maintain and repair fencing
RTC2210A	Maintain properties and structures
RTC2309A	Operate tractors

<b>Code</b>	<b>Name</b>
RTC2401A	Treat weeds
RTC2404A	Treat plant pests, diseases and disorders
RTC2706A	Apply chemicals under supervision
RTC3206A	Erect timber structures and features
RTC3209A	Plan and construct conventional fencing
RTC3401A	Control weeds
RTC3404A	Control plant pests, diseases and disorders
RTC3704A	Prepare and apply chemicals
RTC4306A	Supervise maintenance of machinery and equipment
RTC4702A	Minimise risks in the use of chemicals
RTC4703A	Plan and implement a chemical use program
RTD2202A	Conduct erosion and sediment control activities
RTD2501A	Maintain cultural places
RTD2703A	Operate in isolated and remote situations
RTD3034A	Implement revegetation works
RTD3212A	Implement erosion and sediment control measures
RTD3703A	Respond to rescue incidents
RTD3711A	Prepare and use explosives
RTD4020A	Plan the implementation of revegetation works
RTD4403A	Develop a pest management action plan within a local area
RTD4508A	Protect places of cultural significance
RTD5402A	Develop a strategy for the management of target pests
RTE2002A	Assist with prescribed burning
RTE2308A	Operate ride-on vehicles

<b>Code</b>	<b>Name</b>
RTE2503B	Observe and report on weather
RTE2603A	Lay irrigation and/or drainage pipes
RTE2606A	Maintain pressurised irrigation systems
RTE3307A	Co-ordinate machinery and equipment maintenance and repair
RTE3506A	Monitor weather conditions
RTE3605A	Troubleshoot irrigation systems
RTE3612A	Implement a maintenance program for an irrigation system
RTE4607A	Plan on-site irrigation system installation and construction work
RTE5525A	Manage trial and/or research material
RTE5603A	Design irrigation, drainage and water treatment systems
RTE5606A	Manage water systems
RTE5921A	Market products and services
RTF2013A	Pot-on plants
RTF2024A	Tend nursery plants
RTF2027A	Undertake standard climbing techniques
RTF2311A	Undertake stump removal
RTF3014A	Implement a propagation plan
RTF3021A	Maintain nursery plants
RTF3026A	Receive and dispatch plants and other nursery products
RTF3031A	Undertake complex tree climbing
RTF3204A	Construct concrete structures and features
RTF4003A	Plan a plant establishment program
RTF4006A	Plan a tree pruning program
RTF4014A	Plan a growing-on program



<b>Code</b>	<b>Name</b>
RTF4015A	Plan a propagation program
RTF5012A	Manage a controlled growing environment
SIRRRPK010A	Recommend home and home improvement products and services
SIRRRPK014A	Recommend specialised products and services
SIRXADM001A	Apply retail office procedures
SIRXCCS001A	Apply point-of-sale handling procedures
SIRXCCS002A	Interact with customers
SIRXFIN001A	Balance point-of-sale terminal
SIRXFIN002A	Perform retail finance duties
SIRXFIN003A	Produce financial reports
SIRXFIN004A	Manage financial resources
SIRXFIN005A	Manage operations to budget
SIRXICT001A	Operate retail technology
SIRXICT003A	Operate retail information technology systems
SIRXINV001A	Perform stock control procedures
SIRXINV002A	Maintain and order stock
SIRXINV004A	Buy merchandise
SIRXMER001A	Merchandise products
SIRXMER002A	Coordinate merchandise presentation
SIRXMER003A	Monitor in-store visual merchandising display
SIRXMER004A	Manage merchandise and store presentation
SIRXMER005A	Create a display
SIRXMGT005A	Set strategic plans
SIRXOHS002A	Maintain store safety

<b>Code</b>	<b>Name</b>
SIRXRSK001A	Minimise theft
SIRXRSK002A	Maintain store security
SIRXRSK003A	Apply store security systems and procedures
SIRXSLS001A	Sell products and services
SIRXSLS002A	Advise on products and services
SIRXSLS003A	Coordinate sales performance
SIRXSLS004A	Build relationships with customers
SIRXSLS005A	Manage sales and service delivery
SITTPPD005A	Plan and develop interpretive activities
TAEASS401A	Plan assessment activities and processes
TAEASS402A	Assess competence
TAEASS403A	Participate in assessment validation
TAEDEL301A	Provide work skill instruction
TAEDEL401A	Plan, organise and deliver group-based learning
TAEDEL402A	Plan, organise and facilitate learning in the workplace
TAEDES401A	Design and develop learning programs or
TAEDES402A	Use training packages and accredited courses to meet client needs
TLIA1207C	Pick and process orders
TLIA1807C	Organise despatch operations
TLIC207C	Drive light rigid vehicle
TLIC307C	Drive medium rigid vehicle
TLIC407D	Drive heavy rigid vehicle
TLIC507D	Drive heavy combination vehicle
TLIC607C	Drive multi-combination vehicle

<b>Code</b>	<b>Name</b>
TLIC707C	Operate vehicle carrying special loads
TLID107C	Shift materials safely using manual handling methods
TLID407C	Load and unload goods/cargo
TLID707C	Prepare cargo for transfer with slings
TLID1007C	Operate a forklift
TLID1107C	Conduct specialised forklift operations
TLID1207C	Operate specialised load shifting equipment
TLID1307C	Move materials mechanically using automated equipment
TLID1407C	Load and unload vehicles carrying special loads
TLID3207C	Plan and conduct specialised lift
TLID3307C	Operate a vehicle-mounted loading crane
TLID3507C	Operate a boom type elevating work platform
TLID3607C	Lift and move load using mobile crane up to and including 20 tonnes
TLID4307B	Shift loads using gantry equipment
TLIE207C	Estimate/calculate mass, area and quantify dimensions
TLIF707C	Implement and coordinate accident-emergency procedures
TLIF1007C	Apply fatigue management strategies
TLIH107D	Interpret road maps and navigate pre-determined routes
TLILIC108A	<ul style="list-style-type: none"><li>• Licence to operate a forklift truck</li></ul>
TLILIC1609A	Licence to drive heavy rigid vehicle
TLILIC1709A	Licence to drive heavy combination vehicle
TLILIC1809A	Licence to drive multi-combination vehicle
TLIR207C	Source goods/services and evaluate contractors

## Mapping of Qualifications to the Previous Training Package

### Mapping of Qualifications to the Previous Training Package

<b>FPI05 V3</b>	<b>Relationship to FPI05 V2.1</b>	<b>Comment in relation to the p Training Package</b>
FPI10105 Certificate I in Forest and Forest Products	FPI10105 Certificate I in Forest and Forest Products	Units updated to latest version Qualifications are equivalent
FPI20105 Certificate II in Forest Growing and Management	FPI20105 Certificate II in Forest Growing and Management	Units updated to latest version Qualifications are equivalent
FPI20205 Certificate II in Harvesting and Haulage	FPI20205 Certificate II in Harvesting and Haulage	Units updated to latest version Qualifications are equivalent
FPI20305 Certificate II in Sawmilling and Processing	FPI20305 Certificate II in Sawmilling and Processing	Units updated to latest version Qualifications are equivalent
FPI20405 Certificate II in Wood Panel Products	FPI20405 Certificate II in Wood Panel Products	Units updated to latest version Qualifications are equivalent
FPI20505 Certificate II in Timber Manufactured Products	FPI20505 Certificate II in Timber Manufactured Products	Units updated to latest version Qualifications are equivalent
FPI20605 Certificate II in Timber Merchandising	FPI20605 Certificate II in Timber Merchandising	Units updated to latest version Qualifications are equivalent
FPI20710 Certificate II in Timber Truss and Frame Design and Manufacture	FPI20710 Certificate II in Timber Truss and Frame Design and Manufacture	Units updated to latest version Qualifications are equivalent
FPI30105 Certificate III in Forest Growing and Management	FPI30105 Certificate III in Forest Growing and Management	Units updated to latest version New FPI units added to electiv Qualifications are equivalent
FPI30205 Certificate III in Harvesting and Haulage	FPI30205 Certificate III in Harvesting and Haulage	Units updated to latest version New FPI units added to electiv Qualifications are equivalent
FPI30305 Certificate III in Sawmilling and Processing	FPI30305 Certificate III in Sawmilling and Processing	Units updated to latest version New FPI units added to electiv Qualifications are equivalent
FPI30405 Certificate III in Wood Panel Products	FPI30405 Certificate III in Wood Panel Products	Units updated to latest version New FPI units added to electiv

		Qualifications are equivalent
FPI30505 Certificate III in Timber Manufactured Products	FPI30505 Certificate III in Timber Manufactured Products	Units updated to latest version New FPI units added to elective Qualifications are equivalent
FPI30605 Certificate III in Timber Merchandising	FPI30605 Certificate III in Timber Merchandising	Units updated to latest version New FPI units added to elective Qualifications are equivalent
FPI30705 Certificate III in Sawdoctoring	FPI30705 Certificate III in Sawdoctoring	Units updated to latest version Qualifications are equivalent
FPI30805 Certificate III in Woodmachining	FPI30805 Certificate III in Woodmachining	Units updated to latest version Qualifications are equivalent
FPI30910 Certificate III Timber Truss and Frame Design and Manufacture	FPI30910 Certificate III Timber Truss and Frame Design and Manufacture	Units updated to latest version Qualifications are equivalent
FPI40105 Certificate IV in Forest Operations	FPI40105 Certificate IV in Forest Operations	Units updated to latest version Qualifications are equivalent
FPI40205 Certificate IV in Timber Processing	FPI40205 Certificate IV in Timber Processing	Units updated to latest version Qualifications are equivalent
FPI40310 Certificate IV Timber Truss and Frame Manufacture	FPI40310 Certificate IV Timber Truss and Frame Manufacture	Units updated to latest version Qualifications are equivalent
FPI40410 Certificate IV Timber Truss and Frame Design	FPI40410 Certificate IV Timber Truss and Frame Design	Units updated to latest version Qualifications are equivalent
FPI50105 Diploma of Forest and Forest Products	FPI50105 Diploma of Forest and Forest Products	Units updated to latest version New FPI units added to elective Qualifications are equivalent
FPI50310 Diploma of Timber Truss and Frame Manufacture	FPI50310 Diploma of Timber Truss and Frame Manufacture	Units updated to latest version Qualifications are equivalent
FPI50410 Diploma of Timber Truss and Frame Design	FPI50410 Diploma of Timber Truss and Frame Design	Units updated to latest version Qualifications are equivalent
FPI60111 Advanced Diploma of Forest Industry Sustainability	NA	New qualification

## Mapping of Units of Competency to the Previous Training Pack

## Mapping of Units of Competency to the Previous Training Package

Unit code and title FPI05 V3	Unit code and title FPI05 V2.1
<b>Core</b>	
FPICOR2201B Work effectively in the forest and forest products industry	FPICOR2201A Work effectively in the forest and forest products industry
FPICOR2202B Communicate and interact effectively in the workplace	FPICOR2202A Communicate and interact effectively in the workplace
FPICOR2203B Follow environmental care procedures	FPICOR2203A Follow environmental care procedures
FPICOR2204B Follow fire prevention procedures	FPICOR2204A Follow fire prevention procedures
FPICOR2205B Follow OHS policies and procedures	FPICOR2205A Follow OHS policies and procedures
FPICOR2207B Maintain quality and product care	FPICOR2207A Maintain quality and product care
FPICOR3201B Implement SHE policies and procedures	FPICOR3201A Implement SHE policies and procedures
FPICOR3202B Conduct quality and product care procedures	FPICOR3202A Conduct quality and product care procedures
FPICOR3203B Evaluate fire potential and prevention	FPICOR3203A Evaluate fire potential and prevention
FPICOR3204B Visually assess materials	FPICOR3204A Visually assess materials
FPICOR4201B Monitor SHE policies and procedures	FPICOR4201A Monitor SHE policies and procedures
FPICOR4202B Monitor and review forestry operations	FPICOR4202A Monitor and review forestry operations
FPICOR4203B Monitor quality and product care procedures	FPICOR4203A Monitor quality and product care procedures
FPICOR6201A Manage sustainability in the workplace	No previous unit
FPICOR6202A Implement practices to maximise value from wood residues	No previous unit
<b>Common Technical</b>	
FPICOT2201B Stack and bind material	FPICOT2201A Stack and bind material

<b>Unit code and title FPI05 V3</b>	<b>Unit code and title FPI05 V2.1</b>
FPICOT2202B Rack material	FPICOT2202A Rack material
FPICOT2203B Finish products	FPICOT2203A Finish products
FPICOT2205B Tail out materials	FPICOT2205A Tail out materials
FPICOT2207B Dress boards and timber	FPICOT2207A Dress boards and timber
FPICOT2208B Resaw boards and timber	FPICOT2208A Resaw boards and timber
FPICOT2209B Produce finger jointed timber	FPICOT2209A Produce finger jointed timber
FPICOT2210B Tally material	FPICOT2210A Tally material
FPICOT2211B Produce pointed timber products	FPICOT2211A Produce pointed timber products
FPICOT2212B Grade hardwood sawn and milled products	FPICOT2212A Grade hardwood sawn and milled products
FPICOT2213B Grade softwood sawn and milled products	FPICOT2213A Grade softwood sawn and milled products
FPICOT2214B Grade cypress sawn and milled products	FPICOT2214A Grade cypress sawn and milled products
FPICOT2215B Visually stress grade hardwood	FPICOT2215A Visually stress grade hardwood
FPICOT2216B Visually stress grade softwood	FPICOT2216A Visually stress grade softwood
FPICOT2217B Visually stress grade cypress	FPICOT2217A Visually stress grade cypress
FPICOT2218B Cross cut materials with a fixed saw	FPICOT2218A Cross cut materials with a fixed saw
FPICOT2219B Use hand-held tools	FPICOT2219A Use hand-held tools
FPICOT2220B Select trees for tending operations	FPICOT2220A Select trees for tending operations
FPICOT2222B Produce laminated beams	FPICOT2222A Produce laminated beams
FPICOT2223B Segregate and sort logs	FPICOT2223A Segregate and sort logs
FPICOT2224B Band edges of panels	FPICOT2224A Band edges of panels
FPICOT2225B Chip or flake wood	FPICOT2225A Chip or flake wood
FPICOT2226B Debark logs mechanically	FPICOT2226A Debark logs mechanically

<b>Unit code and title FPI05 V3</b>	<b>Unit code and title FPI05 V2.1</b>
FPICOT2227B Process orders and despatch products	FPICOT2227A Process orders and despatch products
FPICOT2228B Store materials	FPICOT2228A Store materials
FPICOT2229B Dock material to length	FPICOT2229A Dock material to length
FPICOT2230B Assemble products	FPICOT2230A Assemble products
FPICOT2231B Pack products	FPICOT2231A Pack products
FPICOT2232B Cut material to shape using a saw	FPICOT2232A Cut material to shape using a saw
FPICOT2233B Navigate in forest areas	FPICOT2233A Navigate in forest areas
FPICOT2234B Operate 4x4 vehicle	FPICOT2234A Operate 4x4 vehicle
FPICOT3201B Hand sharpen knives and blades	FPICOT3201A Hand sharpen knives and blades
FPICOT3202B Navigate in remote or trackless areas	FPICOT3202A Navigate in remote or trackless areas
FPICOT3203B Weigh loads	FPICOT3203A Weigh loads
FPICOT3204B Prepare and interpret sketches and drawings	FPICOT3204A Prepare and interpret sketches and drawings
FPICOT3205B Dress boards using multi-headed machines	FPICOT3205A Dress boards using multi-headed machines
FPICOT3206B Cut material using high speed optimiser	FPICOT3206A Cut material using high speed optimiser
FPICOT3207B Set up, operate and maintain finger jointing operations	FPICOT3207A Set up, operate and maintain finger jointing operations
FPICOT3208B Test strength of joints	FPICOT3208A Test strength of joints
FPICOT3209B Set up, operate and maintain end matching operations	FPICOT3209A Set up, operate and maintain end matching operations
FPICOT3210B Sharpen cutting tools	FPICOT3210A Sharpen cutting tools
FPICOT3211B Maintain sawdoctoring tools	FPICOT3211A Maintain sawdoctoring tools
FPICOT3212B Replace saws, blades and guides	FPICOT3212A Replace saws, blades and guides
FPICOT3213B Manufacture cutting tools	FPICOT3213A Manufacture cutting tools



<b>Unit code and title FPI05 V3</b>	<b>Unit code and title FPI05 V2.1</b>
FPICOT3214B Take off material quantities	FPICOT3214A Take off material quantities
FPICOT3215B Swage and shape saw blades	FPICOT3215A Swage and shape saw blades
FPICOT3216B Assess and maintain saw performance	FPICOT3216A Assess and maintain saw performance
FPICOT3217B Assess and maintain cutter performance	FPICOT3217A Assess and maintain cutter performance
FPICOT3219B Produce standard truss or frame plans and details using computers	FPICOT3219A Produce standard truss or frame plans and details using computers
FPICOT3221B Rehabilitate tracks, quarries and landings	FPICOT3221A Rehabilitate tracks, quarries and landings
FPICOT3222B Present forestry information and interpretations programs	FPICOT3222A Present forestry information and interpretations programs
FPICOT3223B Grade and mark logs	FPICOT3223A Grade and mark logs
FPICOT3224B Plan and monitor equipment maintenance	FPICOT3224A Plan and monitor equipment maintenance
FPICOT3225B Mechanically stress grade timber	FPICOT3225A Mechanically stress grade timber
FPICOT3226B Shift forestry logs using trucks	FPICOT3226A Shift forestry logs using trucks
FPICOT3227B Receive and measure logs	FPICOT3227A Receive and measure logs
FPICOT3228B Plane/sand panels	FPICOT3228A Plane/sand panels
FPICOT3229B Mechanically stress grade panels	FPICOT3229A Mechanically stress grade panels
FPICOT3230B Operate automated stacking equipment	FPICOT3230A Operate automated stacking equipment
FPICOT3231B Operate steam boiler	FPICOT3231A Operate steam boiler
FPICOT3232B Operate heat plant	FPICOT3232A Operate heat plant
FPICOT3233B Sharpen and align blades and knives	FPICOT3233A Sharpen and align blades and knives
FPICOT3234B Cut material using CNC sizing machines	FPICOT3234A Cut material using CNC sizing machines
FPICOT3235B Machine material using CNC machining and processing centres	FPICOT3235A Machine material using CNC machining and processing centres

<b>Unit code and title FPI05 V3</b>	<b>Unit code and title FPI05 V2.1</b>
FPICOT3236B Coordinate stock control procedures	FPICOT3236A Coordinate stock control procedures
FPICOT3237B Produce templates	FPICOT3237A Produce templates
FPICOT3238B Operate a pole saw	FPICOT3238A Operate a pole saw
FPICOT3239B Create drawings using computer aided design systems	FPICOT3239A Create drawings using computer aided design systems
FPICOT3240B Grade heavy structural/engineered products	FPICOT3240A Grade heavy structural/engineered products
FPICOT3241B Assemble timber wall frames	FPICOT3241A Assemble timber wall frames
FPICOT3242B Lay up timber roof trusses	FPICOT3242A Lay up timber roof trusses
FPICOT3243B Operate a truss press	FPICOT3243A Operate a truss press
FPICOT3244B Cut material to profile	FPICOT3244A Cut material to profile
FPICOT3245B Grade, sort and mark material	FPICOT3245A Grade, sort and mark material
FPICOT3246B Test heavy structural/engineered products	FPICOT3246A Test heavy structural/engineered products
FPICOT3247B Select timber for forestry operations	FPICOT3247A Select timber for forestry operations
FPICOT3248A Dry timber in solar assisted kilns	No previous unit
FPICOT3249A Select timber preservation techniques	No previous unit
FPICOT3250A Prepare timber to meet import/export compliance requirements	No previous unit
FPICOT3251A Promote the carbon benefits of wood products	No previous unit
FPICOT3252A Use environmental care procedures to undertake fire salvage operations	No previous unit
FPICOT3253A Convert timber residue into products for further use	No previous unit
FPICOT3254A Implement environmentally sustainable work practices in the work area/work site	No previous unit
FPICOT4201B Produce complex truss and frame	FPICOT4201A Produce complex truss and frame pla

<b>Unit code and title FPI05 V3</b>	<b>Unit code and title FPI05 V2.1</b>
plans and details using computers	and details using computers
FPICOT4203B Plan and coordinate product assembly	FPICOT4203A Plan and coordinate product assembly
FPICOT4204B Schedule and coordinate load shifting	FPICOT4204A Schedule and coordinate load shifting
FPICOT4205B Coordinate log debarking operations	FPICOT4205A Coordinate log debarking operations
FPICOT4206B Plan and coordinate boiler operations	FPICOT4206A Plan and coordinate boiler operations
FPICOT4207B Plan and coordinate heat plant operations	FPICOT4207A Plan and coordinate heat plant operations
FPICOT5201B Implement sustainable forestry practices	FPICOT5201A Implement sustainable forestry practices
FPICOT5202B Manage forestry information and interpretations programs	FPICOT5202A Manage forestry information and interpretations programs
FPICOT5203B Manage installation and commissioning of equipment	FPICOT5203A Manage installation and commissioning of equipment
FPICOT5204B Organise enterprise maintenance programs	FPICOT5204A Organise enterprise maintenance programs
FPICOT5205A Develop biohazard contingency plans	No previous unit
FPICOT5206A Implement Forestry Chain of Custody certification system	No previous unit
FPICOT5207A Implement sustainability in the workplace	No previous unit
FPICOT5208A Build and maintain community relationships	No previous unit
FPICOT5209A Manage tree harvesting to minimise environmental impact	No previous unit
FPICOT6201A Manage community engagement	No previous unit
FPICOT6202A Develop and manage a Forestry Chain of Custody certification process for the workplace	No previous unit
FPICOT6203A Develop engineered timber products to meet energy efficient building	No previous unit

<b>Unit code and title FPI05 V3</b>	<b>Unit code and title FPI05 V2.1</b>
FPICOT6204A Use carbon accounting to estimate emissions in the workplace	No previous unit
FPICOT6205A Prepare an enterprise carbon management report	No previous unit
FPICOT6206A Develop forest management systems and processes	No previous unit
<b>Forest Growing and Management</b>	
FPIFGM2201B Collect seed	FPIFGM2201A Collect seed
FPIFGM2202B Prepare seedbed	FPIFGM2202A Prepare seed bed
FPIFGM2203B Plant trees by hand	FPIFGM2203A Plant trees by hand
FPIFGM2204B Plant trees mechanically	FPIFGM2204A Plant trees mechanically
FPIFGM2205B Prune trees	FPIFGM2205A Prune trees
FPIFGM2206B Collect data or samples for assessment	FPIFGM2206A Collect data or samples for assessment
FPIFGM2207B Undertake brushcutting operations	FPIFGM2207A Undertake brushcutting operations
FPIFGM2209B Cut, sort and set cuttings	FPIFGM2209A Cut, sort and set cuttings
FPIFGM2210B Implement animal pest control procedures	FPIFGM2210A Implement animal pest control procedures
FPIFGM2211B Detect fires	FPIFGM2211A Detect fires
FPIFGM2212B Graft cuttings	FPIFGM2212A Graft cuttings
FPIFGM2213B Process seed	FPIFGM2213A Process seed
FPIFGM2214B Maintain visitor sites	FPIFGM2214A Maintain visitor sites
FPIFGM2215B Measure trees	FPIFGM2215A Measure trees
FPIFGM3201B Manage seed collection	FPIFGM3201A Manage seed collection
FPIFGM3202B Extract seed	FPIFGM3202A Extract seed
FPIFGM3203B Conduct an instrument survey	FPIFGM3203A Conduct an instrument survey

<b>Unit code and title FPI05 V3</b>	<b>Unit code and title FPI05 V2.1</b>
FPIFGM3206B Plan and implement non-commercial thinning operations	FPIFGM3206A Plan and implement non-commercial thinning operations
FPIFGM3207B Coordinate stem improvement	FPIFGM3207A Coordinate stem improvement
FPIFGM3208B Perform complex 4x4 operations	FPIFGM3208A Perform complex 4x4 operations
FPIFGM3209B Construct and maintain forest roads and tracks	FPIFGM3209A Construct and maintain forest roads and tracks
FPIFGM3210B Patrol forest	FPIFGM3210A Patrol forest
FPIFGM3211B Manage coppice stems	FPIFGM3211A Manage coppice stems
FPIFGM4201B Implement a forest establishment plan	FPIFGM4201A Implement a forest establishment plan
FPIFGM4202B Manage stand health	FPIFGM4202A Manage stand health
FPIFGM4203B Design plantations	FPIFGM4203A Design plantations
FPIFGM4204B Conduct a pests and diseases assessment	FPIFGM4204A Conduct a pests and diseases assessment
FPIFGM4205B Monitor regeneration rates	FPIFGM4205A Monitor regeneration rates
FPIFGM4206B Conduct a wood volume and yield assessment	FPIFGM4206A Conduct a wood volume and yield assessment
FPIFGM4207B Conduct a forest site assessment	FPIFGM4207A Conduct a forest site assessment
FPIFGM4208B Plan a quarry	FPIFGM4208A Plan a quarry
FPIFGM4209B Interpret and use aerial photographs for forest management	FPIFGM4209A Interpret and use aerial photographs for forest management
FPIFGM4210B Prepare a tender	FPIFGM4210A Prepare a tender
FPIFGM5201B Plan manage inventory program	FPIFGM5201A Plan and manage an inventory program
FPIFGM5208B Manage road construction and maintenance	FPIFGM5208A Manage road construction and maintenance
FPIFGM5217A Promote plantations as a sustainable form of land use	No previous unit
FPIFGM5218A Undertake carbon storage sampling of forests and plantations	No previous unit

<b>Unit code and title FPI05 V3</b>	<b>Unit code and title FPI05 V2.1</b>
FPIFGM6201A Plan a biochar storage system for carbon capture and storage	No previous unit
FPIFGM6202A Manage tree inventory for sustainable tree management	No previous unit
<b>Harvest Operators</b>	
FPIHAR3206C Conduct forwarder operations	FPIHAR3206B Conduct forwarder operations
FPIHAR3207C Conduct feller buncher operations	FPIHAR3207B Conduct feller buncher operations
FPIHAR3208C Conduct boom delimber operations	FPIHAR3208B Conduct boom delimber operations
FPIHAR3210C Conduct mechanical processor operations	FPIHAR3210B Conduct mechanical processor operations
FPIHAR3214C Operate a single grip harvester	FPIHAR3214B Operate a single grip harvester
FPIHAR3215C Operate heavy production mobile chipper	FPIHAR3215B Operate heavy production mobile chipper
FPIHAR3216A Conduct forestry operations using crawler tractor	FPIHAR3203B Conduct crawler operations
FPIHAR3217A Conduct skidder operations	FPIHAR3204B Conduct skidder operations
FPIHAR3218A Conduct loader operations	FPIHAR3205B Conduct loader operations
FPIHAR3219A Conduct excavator operations with grabs	FPIHAR3209B Conduct excavator operations with grabs

## Deleted Units

<b>Unit code and title V2.1</b>	<b>Unit code and title V3</b>
FPIHAR3203B Conduct crawler operations	FPIHAR3216A Conduct forestry operations using crawler tractor

<b>Unit code and title V2.1</b>	<b>Unit code and title V3</b>
FPIHAR3204B Conduct skidder operations	FPIHAR3217A Conduct skidder operations
FPIHAR3205B Conduct loader operations	FPIHAR3218A Conduct loader operations
FPIHAR3209B Conduct excavator operations with grabs	FPIHAR3219A Conduct excavator operations with grabs

## Mapping of Units of Competency in FPI05 V2.1 to FPI05 V2

### Mapping of Units of Competency in FPI05 V2.1 to FPI05 V2

<b>FPI05 V2.1 updated unit code and title</b>	<b>Previous FPI05 V2 unit</b>	
FPIHAR2203B Hook up felled logs using cables (choker)	FPIHAR2203A Hook up felled logs using cables (choker)	U
FPIHAR2204B Perform landing duties (chaser)	FPIHAR2204A Perform landing duties (chaser)	U
FPIHAR2205B Conduct mobile splitting operations	FPIHAR2205A Conduct mobile splitting operations	U
FPIHAR2206B Operate a mobile chipper/mulcher	FPIHAR2206A Operate a mobile chipper/mulcher	U
FPIHAR3201B Monitor log recovery (rigging slinger)	FPIHAR3201A Monitor log recovery (rigging slinger)	U
FPIHAR3211B Operate yarder	FPIHAR3211A Operate yarder	U
FPIHAR3213B Conduct mechanically assisted tree falling operations	FPIHAR3213A Conduct mechanically assisted tree falling operations	U
FPIHAR4201B Apply tree jacking techniques	FPIHAR4201A Apply tree jacking techniques	U
FPIHAR4202B Coordinate log recovery (hook tender)	FPIHAR4202A Coordinate log recovery (hook tender)	U
FPIHAR4203B Design log landings and snig tracks	FPIHAR4203A Design log landings and snig tracks	U
FPIHAR4204B Plan and coordinate fire salvage	FPIHAR4204A Plan and coordinate fire salvage	U

<b>FPI05 V2.1 updated unit code and title</b>	<b>Previous FPI05 V2 unit</b>	<b></b>
operations	operations	
FPIHAR4205B Implement harvesting plans	FPIHAR4205A Implement harvesting plans	
FPIHAR5201B Design harvesting plans	FPIHAR5201A Design harvesting plans	U
FPISAW2201B Grade round poles and debarked logs	FPISAW2201A Grade round poles and debarked logs	U
FPISAW2202B Sort boards manually	FPISAW2202A Sort boards manually	U
FPISAW2203B Sort boards mechanically	FPISAW2203A Sort boards mechanically	U
FPISAW2204B Dock boards with mechanical feed	FPISAW2204A Dock boards with mechanical feed	U
FPISAW2205B Assemble materials using nail plates	FPISAW2205A Assemble materials using nail plates	U
FPISAW2206B De-stack seasoning racks	FPISAW2206A De-stack seasoning racks	U
FPISAW2207B Round softwood logs	FPISAW2207A Round softwood logs	U
FPISAW2208B Split wood products	FPISAW2208A Split wood products	U
FPISAW2209B Dismantle, transport and assemble hand portable sawmill	FPISAW2209A Dismantle, transport and assemble hand portable sawmill	U
FPISAW2210B Prepare for timber treatment operations	FPISAW2210A Prepare for timber treatment operations	U
FPISAW3201B Treat timber	FPISAW3201A Treat timber	U
FPISAW3202B Produce sawn green boards	FPISAW3202A Produce sawn green boards	U
FPISAW3203B Break down logs	FPISAW3203A Break down logs	U
FPISAW3204B Saw flitches and cants	FPISAW3204A Saw flitches and cants	U
FPISAW3205B Dry hardwood	FPISAW3205A Dry hardwood	U
FPISAW3206B Dry softwood	FPISAW3206A Dry softwood	U
FPISAW3207B Sharpen band saws	FPISAW3207A Sharpen band saws	U
FPISAW3208B Sharpen circular saws	FPISAW3208A Sharpen circular saws	U
FPISAW3209B Align sawing production systems	FPISAW3209A Align sawing production systems	U



<b>FPI05 V2.1 updated unit code and title</b>	<b>Previous FPI05 V2 unit</b>	<b></b>
FPISAW3210B File and set saws	FPISAW3210A File and set saws	U
FPISAW3211B Recondition guides	FPISAW3211A Recondition guides	U
FPISAW3212B Sharpen tipped circular saws	FPISAW3212A Sharpen tipped circular saws	U
FPISAW3213B Level and tension circular saws	FPISAW3213A Level and tension circular saws	U
FPISAW3214B Join band saw blades	FPISAW3214A Join band saw blades	U
FPISAW3215B Screen wood chips	FPISAW3215A Screen wood chips	U
FPISAW3216B Transfer wood chips	FPISAW3216A Transfer wood chips	U
FPISAW3217B Hard face saw teeth	FPISAW3217A Hard face saw teeth	U
FPISAW3218B Replace tungsten tips	FPISAW3218A Replace tungsten tips	U
FPISAW3219B Replace stellite tips	FPISAW3219A Replace stellite tips	U
FPISAW3220B Maintain wide band saw blades	FPISAW3220A Maintain wide band saw blades	U
FPISAW3221B Profile saw blanks	FPISAW3221A Profile saw blanks	U
FPISAW3222B Recondition band mill wheels	FPISAW3222A Recondition band mill wheels	U
FPISAW3223B Assess wood chips	FPISAW3223A Assess wood chips	U
FPISAW3224B Coordinate and monitor the wood chip stockpile	FPISAW3224A Coordinate and monitor the wood chip stockpile	U
FPISAW3225B Maintain frame saw blades	FPISAW3225A Maintain frame saw blades	U
FPISAW3226B Saw logs using CNC optimising systems	FPISAW3226A Saw logs using CNC optimising systems	U
FPISAW3227B Select and saw logs in multi-species operations	FPISAW3227A Select and saw logs in multi-species operations	U
FPISAW3228B Apply principles of blade design to sawing procedures	FPISAW3228A Apply principles of blade design to sawing procedures	U
FPISAW3229B Operate a portable sawmill	FPISAW3229A Operate a portable sawmill	U
FPISAW4201B Plan and monitor timber treatment plant operations	FPISAW4201A Plan and monitor timber treatment plant operations	U

<b>FPI05 V2.1 updated unit code and title</b>	<b>Previous FPI05 V2 unit</b>	<b></b>
FPISAW4202B Plan and monitor saw log operations	FPISAW4202A Plan and monitor saw log operations	U
FPISAW4203B Coordinate timber drying operations	FPISAW4203A Coordinate timber drying operations	U
FPISAW4204B Plan and monitor board conversion	FPISAW4204A Plan and monitor board conversion	U
FPITMM2201B Cut material to length and angles	FPITMM2201A Cut material to length and angles	U
FPITMM2202B Machine material	FPITMM2202A Machine material	U
FPITMM3201B Convert timber	FPITMM3201A Convert timber	U
FPITMM3202B Manufacture using joinery machines	FPITMM3202A Manufacture using joinery machines	U
FPITMM3203B Estimate and cost job	FPITMM3203A Estimate and cost job	U
FPITMM4201B Construct prototypes and samples	FPITMM4201A Construct prototypes and samples	U
FPITMM4202B Diagnose and calculate production costs	FPITMM4202A Diagnose and calculate production costs	U
FPITMM4203B Install and commission CNC software	FPITMM4203A Install and commission CNC software	U
FPITMM4204B Sample and test products to specifications	FPITMM4204A Sample and test products to specifications	U
FPITMM5201B Assess product feasibility of designs	FPITMM5201A Assess product feasibility of designs	U
FPITMM5202B Develop, trial and evaluate prototypes	FPITMM5202A Develop, trial and evaluate prototypes	U
FPITMM5203B Generate and transfer complex computer-aided drawings and specifications	FPITMM5203A Generate and transfer complex computer-aided drawings and specifications	U
FPITMM5204B Manage product design	FPITMM5204A Manage product design	U
FPITMM5205B Optimise CNC operations	FPITMM5205A Optimise CNC operations	U
FPITMM5206B Plan production	FPITMM5206A Plan production	U
FPIWPP2201B Cut panels	FPIWPP2201A Cut panels	U

<b>FPI05 V2.1 updated unit code and title</b>	<b>Previous FPI05 V2 unit</b>	<b></b>
FPIWPP2202B Surface treat raw board	FPIWPP2202A Surface treat raw board	U
FPIWPP2203B Repair veneer and ply	FPIWPP2203A Repair veneer and ply	U
FPIWPP2204B Repair veneer mechanically	FPIWPP2204A Repair veneer mechanically	U
FPIWPP2205B Prepare chip or fibre blends	FPIWPP2205A Prepare chip or fibre blends	U
FPIWPP2206B Prepare veneer for ply	FPIWPP2206A Prepare veneer for ply	U
FPIWPP2207B Scarf edges of veneer	FPIWPP2207A Scarf edges of veneer	U
FPIWPP2208B Cut veneer	FPIWPP2208A Cut veneer	U
FPIWPP2209B Saw products from continuous ply	FPIWPP2209A Saw products from continuous ply	U
FPIWPP2210B Cut panels to profile	FPIWPP2210A Cut panels to profile	U
FPIWPP2211B Move material by transfer equipment	FPIWPP2211A Move material by transfer equipment	U
FPIWPP3201B Produce veneer from debarked logs	FPIWPP3201A Produce veneer from debarked logs	U
FPIWPP3202B Paint panels	FPIWPP3202A Paint panels	U
FPIWPP3203B Produce fibre from chips	FPIWPP3203A Produce fibre from chips	U
FPIWPP3204B Form board	FPIWPP3204A Form board	U
FPIWPP3205B Match and join veneer	FPIWPP3205A Match and join veneer	U
FPIWPP3206B Laminate and veneer board surfaces	FPIWPP3206A Laminate and veneer board surfaces	U
FPIWPP3207B Clip veneer	FPIWPP3207A Clip veneer	U
FPIWPP3208B Punch peg holes in panels	FPIWPP3208A Punch peg holes in panels	U
FPIWPP3209B Prepare resin and additives	FPIWPP3209A Prepare resin and additives	U
FPIWPP3210B Laminate board	FPIWPP3210A Laminate board	U
FPIWPP3211B Maintain caul plates and screens	FPIWPP3211A Maintain caul plates and screens	U
FPIWPP3212B Dry material	FPIWPP3212A Dry material	U
FPIWPP3213B Heat treat material	FPIWPP3213A Heat treat material	U

<b>FPI05 V2.1 updated unit code and title</b>	<b>Previous FPI05 V2 unit</b>	<b></b>
FPIWPP3214B Treat paper	FPIWPP3214A Treat paper	U
FPIWPP3215B Cut paper	FPIWPP3215A Cut paper	U
FPIWPP3216B Press material using the daylight process	FPIWPP3216A Press material using the daylight process	U
FPIWPP3217B Process production effluent	FPIWPP3217A Process production effluent	U
FPIWPP3218B Coordinate machining of panels	FPIWPP3218A Coordinate machining of panels	U
FPIWPP3219B Blend and test binding mixes	FPIWPP3219A Blend and test binding mixes	U
FPIWPP3220B Plan and coordinate panel painting	FPIWPP3220A Plan and coordinate panel painting	U
FPIWPP3221B Trim new panels to size	FPIWPP3221A Trim new panels to size	U
FPIWPP3222B Press laminated ply	FPIWPP3222A Press laminated ply	U
FPIWPP3223B Immunise veneer	FPIWPP3223A Immunise veneer	U
FPIWPP3224B Profile sand products	FPIWPP3224A Profile sand products	U
FPIWPP3225B Produce profile sanding shoes and wheels	FPIWPP3225A Produce profile sanding shoes and wheels	U
FPIWPP3226B Operate a continuous press	FPIWPP3226A Operate a continuous press	U
FPIWPP3227B Vacuum paint	FPIWPP3227A Vacuum paint	U
FPIWPP3228B Dry wood flakes	FPIWPP3228A Dry wood flakes	U
FPIWPP3229B Classify flake	FPIWPP3229A Classify flake	U
FPIWPP3230B Produce decorative veneers	FPIWPP3230A Produce decorative veneers	U
FPIWPP3231B Produce veneer from prepared flitches	FPIWPP3231A Produce veneer from prepared flitches	U
FPIWPP4201B Plan and coordinate panel production	FPIWPP4201A Plan and coordinate panel production	U
FPIWPP4202B Perform laboratory testing	FPIWPP4202A Perform laboratory testing	U

## Overview

### What is a training package

A Training Package is an integrated set of nationally endorsed competency standards, assessment guidelines and Australian Qualifications Framework (AQF) qualifications for a specific industry, industry sector or enterprise.

Each Training Package:

- provides a consistent and reliable set of components for training, recognising and assessing people's skills, and may also have optional support materials
- enables nationally recognised qualifications to be awarded through direct assessment of workplace competencies
- encourages the development and delivery of flexible training which suits individual and industry requirements
- encourages learning and assessment in a work-related environment which leads to verifiable workplace outcomes.

### How do Training Packages fit within the National Skills Framework?

The National Skills Framework applies nationally, is endorsed by the Ministerial Council for Vocational and Technical Education, and comprises the Australian Quality Training Framework 2007 (AQTF 2007), and Training Packages endorsed by the National Quality Council (NQC).

### How are Training Packages developed?

Training Packages are developed by Industry Skills Councils or enterprises to meet the identified training needs of specific industries or industry sectors. To gain national endorsement of Training Packages, developers must provide evidence of extensive research, consultation and support within the industry area or enterprise.

### How do Training Packages encourage flexibility?

Training Packages describe the skills and knowledge needed to perform effectively in the workplace without prescribing how people should be trained.

Training Packages acknowledge that people can achieve vocational competency in many ways by emphasising what the learner can do, not how or where they learned to do it. For example, some experienced workers might be able to demonstrate competency against the units of competency, and even gain a qualification, without completing a formal training program.

With Training Packages, assessment and training may be conducted at the workplace, off-the-job, at a training organisation, during regular work, or through work experience, work placement, work simulation or any combination of these.

### Who can deliver and assess using Training Packages?

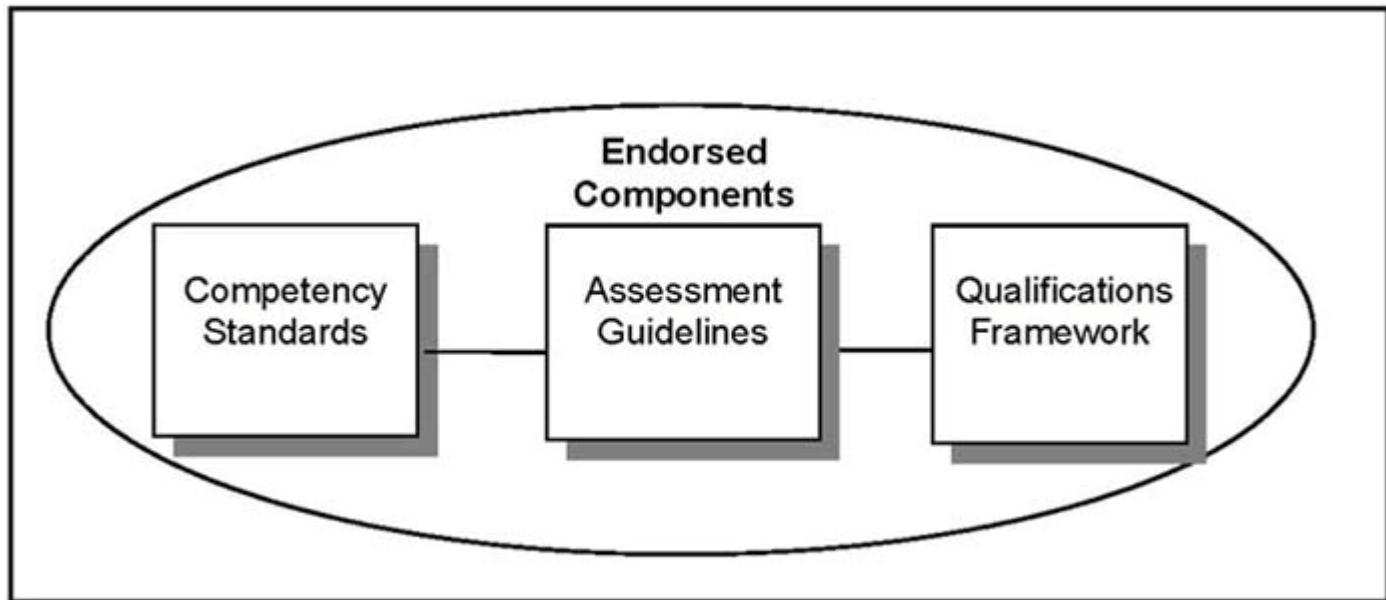
Training and assessment using Training Packages must be conducted by a Registered Training Organisation (RTO) that has the qualifications or specific units of competency on its scope of registration, or that works in partnership with another RTO, as specified in the AQTF 2007.

### Training Package Components

Training Packages are made up of mandatory components endorsed by the NQC, and optional support materials.

### Training Package Endorsed Components

The nationally endorsed components include the Competency Standards, Assessment Guidelines and Qualifications Framework. These form the basis of training and assessment in the Training Package and, as such, they must be used.



### **Competency Standards**

Each unit of competency identifies a discrete workplace requirement and includes the knowledge and skills that underpin competency as well as language, literacy and numeracy; and occupational health and safety requirements. The units of competency must be adhered to in training and assessment to ensure consistency of outcomes.

### **Assessment Guidelines**

The Assessment Guidelines provide an industry framework to ensure all assessments meet industry needs and nationally agreed standards as expressed in the Training Package and the AQTF 2007. The Assessment Guidelines must be followed to ensure the integrity of assessment leading to nationally recognised qualifications.

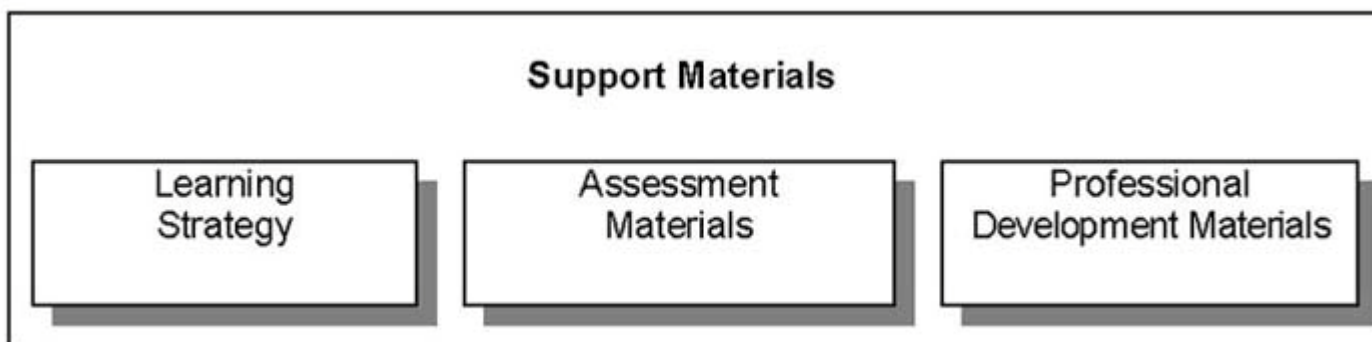
### **Qualifications Framework**

Each Training Package provides details of those units of competency that must be achieved to award AQF qualifications. The rules around which units of competency can be combined to make up a valid AQF qualification in the Training Package are referred to as the 'packaging rules'. The packaging rules must be followed to ensure the integrity of nationally recognised qualifications issued.

### **Training Package Support Materials**

The endorsed components of Training Packages are complemented and supported by optional support materials that provide for choice in the design of training and assessment to meet the needs of industry and learners.

Training Package support materials can relate to single or multiple units of competency, an industry sector, a qualification or the whole Training Package. They tend to fall into one or more of the categories illustrated below.



Training Package support materials are produced by a range of stakeholders such as RTOs, individual trainers and assessors, private and commercial developers and Government agencies.

Where such materials have been quality assured through a process of 'noting' by the NQC, they display the following official logo. Noted support materials are listed on the National Training Information Service (NTIS), together with a detailed description and information on the type of product and its availability <[www.ntis.gov.au](http://www.ntis.gov.au)>



It is not compulsory to submit support materials for noting; any resources that meet the requirements of the Training Package can be used.

### **Training Package, Qualification and Unit of Competency Codes**

There are agreed conventions for the national codes used for Training Packages and their components. Always use the correct codes, exactly as they appear in the Training Package, **and with the code always before the title.**

#### **Training Package Codes**

Each Training Package has a unique five-character national code assigned when the Training Package is endorsed, for example FPI05. The first three characters are letters identifying the Training Package industry coverage and the last two characters are numbers identifying the year of endorsement.

#### **Qualification Codes**

Within each Training Package, each qualification has a unique eight-character code, for example FPI50105.

- the first three letters identify the Training Package;
- the first number identifies the qualification level (noting that, in the qualification titles themselves, arabic numbers are **not** used;
- the next two numbers identify the position in the sequence of the qualification at that level; and

- the last two numbers identify the year in which the qualification was endorsed. (Where qualifications are added after the initial Training Package endorsement, the last two numbers may differ from other Training Package qualifications as they identify the year in which those particular qualifications were endorsed.)

### Unit of Competency Codes

Within each Training Package, each unit of competency has a unique code. The unit of competency codes are assigned when the Training Package is endorsed, or when new units of competency are added to an existing endorsed Training Package.

- a typical code is made up of 12 characters, normally a mixture of uppercase letters and numbers, as in FPISAW2201A;
- the first three characters signify the Training Package (FPI05 Forest and Forest Products Training Package in the above example) and up to eight characters, relating to an industry sector, function or skill area, follow;
- the last character is always a letter and identifies the unit of competency version. An 'A'

at the end of the code indicates that this is the original unit of competency. 'B', or another incremented version identifier means that minor changes have been made. Typically this would mean that wording has changed in the range statement or evidence guide, providing clearer intent; and

- where changes are made that alter the outcome, a new code is assigned and the title is changed.

The uppercase letters in the codes for Forest and Forest Products Industry units of competency correspond to the industry sectors as follows:

FPICOR	Denotes <b>Core</b> units of competency
FPICOT	Denotes <b>Common Technical</b> units of competency (which are common to more than one sector of the industry)
FPIFGM	Denotes units of competency within the <b>Forest Growing and Management</b> sector
FPIHAR	Denotes units of competency within the <b>Harvesting and Haulage</b> sector
FPISAW	Denotes units of competency within the <b>Sawmilling and Processing</b> sector
FPIWPP	Denotes units of competency within the <b>Wood Panel Products</b> sector
FPITMM	Denotes units of competency within the <b>Timber Manufactured Products and Timber Merchandising</b> sector

Imported units of competency retain the codes from their Training Package of origin.

### Training Package, Qualification and Unit of Competency Titles

There are agreed conventions for titling Training Packages and their components. Always use the correct titles, exactly as they appear in the Training Package, and with the code always placed before the title.



**Training Package Titles**

The title of each endorsed Training Package is unique and relates the Training Package's broad industry coverage.

**Qualification Titles**

The title of each endorsed Training Package qualification is unique. Qualification titles use the following sequence:

- first, the qualification is identified as either Certificate I, Certificate II, Certificate III, Certificate IV, Diploma, Advanced Diploma, Vocational Graduate Certificate, or Vocational Graduate Diploma;
- this is followed by the words 'in' for Certificates I to IV, and 'of' for Diploma, Advanced Diploma, Vocational Graduate Certificate and Vocational Graduate Diploma;
- then, the industry descriptor, for example Telecommunications; and
- then, if applicable, the occupational or functional stream in brackets, for example (Computer Systems).

For example:

- FPI20105 Certificate II in Forest Growing and Management
- FPI50105 Diploma of Forest and Forest Products.

**Unit of Competency Titles**

Each unit of competency title is unique. Unit of competency titles describe the competency outcome concisely, and are written in sentence case.

For example:

- FPICOT2201B Stack and bind material
- FPISAW3201B Treat timber.

**Introduction to FPI05 V3****The Industry**

The Forest and Forest Products Industry covers a diverse range of activities from growing and management of plantation and native forest resources, through harvesting, sawmilling and processing, to the manufacture, merchandising and retailing of finished products.

The industry is characterised by a mix of small, medium and large enterprises. Some enterprises show a high degree of vertical integration, being involved in activities across the six industry sectors. The six industry sectors are:

- Forest Growing and Management
- Harvesting and Haulage
- Sawmilling and Processing
- Timber Manufactured Products
- Timber Merchandising
- Wood Panel Products.

**Forest Growing and Management** has traditionally been dominated by very large organisations, usually either State owned, or associated with large downstream manufacturing operations. A new category of forest growers are the agroforesters, or farm foresters, who often run plantations as micro-businesses attached to a commercial farm.

Activities in the Forest Growing and Management sector generally involve the planting, tending, protection and preparation of trees for harvesting, including the general environmental management of the land and land usage. Forests are maintained not only for the production of timber products, but for conservation, land protection, recreational, social and scientific purposes.

**Harvesting and Haulage** typically involves small enterprises employing the 4-6 people needed to run a single logging crew. Harvesting operators usually have a contractual relationship with their suppliers (forest owners) and customers (sawmillers and manufacturers of various types), rather than an open-market relationship.

Forest harvesting is carried out in both native hardwood forests and softwood or hardwood plantations. Jobs in this sector, typically involving outdoor work, can include activities such as construction of roads and log-landings, harvesting trees either mechanically or manually, plant and equipment operation, shifting tree lengths into various products and grades of product, grading of sawlogs, loading logs for delivery to specified processing plants, and undertaking rehabilitation works to rejuvenate forest coupes (areas from which trees are harvested).

**Sawmilling and Processing** is comprised of small, medium and large organisations that undertake a range of activities. These include log sawmilling, production of hardwood and softwood chips for use by other sectors of the industry, and value adding through planing and moulding activities (including finger jointing), preservative treatment, kiln drying, the production of landscape bark and chips, production of flooring and joinery products, component manufacturing and planing, moulding and machining.

Increasingly, enterprises involved in sawmilling and processing are highly mechanised and rely on computer technology to control the production process.

**Timber Manufactured Products** comprises small, medium and large enterprises and is involved in the production of a wide range of products including doors, windows and prefabricated trusses and frames, for the construction industry. Other enterprises produce pallets, casks, boxes, crates etc. for agricultural and industrial use.

Enterprises employ skilled tradespeople (eg carpenters, joiners, builders and maintenance mechanics) as well.

**Timber Merchandising** outlets range from small 'corner-shop' timber and hardware stores to large national chains. Industry seems to be trending away from small independent stores towards larger businesses, or groups of small businesses coming together under the banner of a franchise. This sector includes:

- Wholesale distributors who import timber and wood or buy from local manufacturers for sale to merchants and other large volume clients. They are often associated with large timber producers and are usually based in capital cities or major regional centres.
- Merchants who sell to trade users of timber products. They usually handle many different types of timber species and products, bought from a large number of suppliers. They may provide ancillary services, eg. Quantities and sizes to order, drying, moulding etc.
- Retailers who sell timber products and associated hardware in smaller quantities to individual tradespeople and the general public. The emphasis is on display, customer service and packaging.
- **Wood Panel Products** is predominantly comprised of large enterprises due to high costs involved in establishing efficient production facilities. Activities in the wood panel products sector include the manufacture of veneers, plywood, particle board and medium density fibre board (MDF).

The manufacture of wood panel products is a highly mechanised, technology driven production process.

## Qualification framework

### What is the Australian Qualifications Framework?

A brief overview of the Australian Qualifications Framework (AQF) follows. For a full explanation of the AQF, see the *AQF Implementation Handbook*.

[http://www.aqf.edu.au/Portals/0/Documents/Handbook/AQF\\_Handbook\\_07.pdf](http://www.aqf.edu.au/Portals/0/Documents/Handbook/AQF_Handbook_07.pdf)

The AQF provides a comprehensive, nationally consistent framework for all qualifications in post-compulsory education and training in Australia. In the vocational education and training (VET) sector it assists national consistency for all trainees, learners, employers and providers by enabling national recognition of qualifications and Statements of Attainment.

Training Package qualifications in the VET sector must comply with the titles and guidelines of the AQF. Endorsed Training Packages provide a unique title for each AQF qualification which must always be reproduced accurately.

### Qualifications

Training Packages can incorporate the following eight AQF qualifications.

- Certificate I in ...
- Certificate II in ...
- Certificate III in ...
- Certificate IV in ...
- Diploma of ...
- Advanced Diploma of ...
- Vocational Graduate Certificate of ...
- Vocational Graduate Diploma of ...

On completion of the requirements defined in the Training Package, a Registered Training Organisation (RTO) may issue a nationally recognised AQF qualification. Issuance of AQF qualifications must comply with the advice provided in the *AQF Implementation Handbook* and the AQTF 2010 *Essential Standards for Initial and Continuing Registration*.

### Statement of Attainment

A Statement of Attainment is issued by a Registered Training Organisation when an individual has completed one or more units of competency from nationally recognised qualification(s)/courses(s). Issuance of Statements of Attainment must comply with the advice provided in the current *AQF Implementation Handbook* and the AQTF 2010 *Essential Standards for Initial and Continuing Registration*.

Under the AQTF 2010, RTOs must recognise the achievement of competencies as recorded on a qualification or Statement of Attainment issued by other RTOs. Given this, recognised competencies can progressively build towards a full AQF qualification.

### AQF Guidelines and Learning Outcomes

The *AQF Implementation Handbook* provides a comprehensive guideline for each AQF qualification. A summary of the learning outcome characteristics and their distinguishing features for each VET related AQF qualification is provided below.

### Certificate I

#### *Characteristics of Learning Outcomes*

Breadth, depth and complexity of knowledge and skills would prepare a person to perform a defined range of activities most of which may be routine and predictable.

Applications may include a variety of employment related skills including preparatory access and participation skills, broad-based induction skills and/or specific workplace skills. They may also include participation in a team or work group.

*Distinguishing Features of Learning Outcomes*

Do the competencies enable an individual with this qualification to:

- demonstrate knowledge by recall in a narrow range of areas;
- demonstrate basic practical skills, such as the use of relevant tools;
- perform a sequence of routine tasks given clear direction
- receive and pass on messages/information.

**Certificate II**

*Characteristics of Learning Outcomes*

Breadth, depth and complexity of knowledge and skills would prepare a person to perform in a range of varied activities or knowledge application where there is a clearly defined range of contexts in which the choice of actions required is usually clear and there is limited complexity in the range of operations to be applied.

Performance of a prescribed range of functions involving known routines and procedures and some accountability for the quality of outcomes.

Applications may include some complex or non-routine activities involving individual responsibility or autonomy and/or collaboration with others as part of a group or team.

*Distinguishing Features of Learning Outcomes*

Do the competencies enable an individual with this qualification to:

- demonstrate basic operational knowledge in a moderate range of areas;
- apply a defined range of skills;
- apply known solutions to a limited range of predictable problems;
- perform a range of tasks where choice between a limited range of options is required;
- assess and record information from varied sources;
- take limited responsibility for own outputs in work and learning.

**Certificate III**

*Characteristics of Learning Outcomes*

Breadth, depth and complexity of knowledge and competencies would cover selecting, adapting and transferring skills and knowledge to new environments and providing technical advice and some leadership in resolution of specified problems. This would be applied across a range of roles in a variety of contexts with some complexity in the extent and choice of options available.

Performance of a defined range of skilled operations, usually within a range of broader related activities involving known routines, methods and procedures, where some discretion and judgement is required in the selection of equipment, services or contingency measures and within known time constraints.

Applications may involve some responsibility for others. Participation in teams including group or team co-ordination may be involved.

*Distinguishing Features of Learning Outcomes*

Do the competencies enable an individual with this qualification to:

- demonstrate some relevant theoretical knowledge
- apply a range of well-developed skills
- apply known solutions to a variety of predictable problems

- perform processes that require a range of well-developed skills where some discretion and judgement is required
- interpret available information, using discretion and judgement
- take responsibility for own outputs in work and learning
- take limited responsibility for the output of others.

## **Certificate IV**

### *Characteristics of Learning Outcomes*

Breadth, depth and complexity of knowledge and competencies would cover a broad range of varied activities or application in a wider variety of contexts most of which are complex and non-routine. Leadership and guidance are involved when organising activities of self and others as well as contributing to technical solutions of a non-routine or contingency nature. Performance of a broad range of skilled applications including the requirement to evaluate and analyse current practices, develop new criteria and procedures for performing current practices and provision of some leadership and guidance to others in the application and planning of the skills. Applications involve responsibility for, and limited organisation of, others.

### *Distinguishing Features of Learning Outcomes*

Do the competencies enable an individual with this qualification to:

- demonstrate understanding of a broad knowledge base incorporating some theoretical concepts
- apply solutions to a defined range of unpredictable problems
- identify and apply skill and knowledge areas to a wide variety of contexts, with depth in some areas
- identify, analyse and evaluate information from a variety of sources
- take responsibility for own outputs in relation to specified quality standards
- take limited responsibility for the quantity and quality of the output of others.

## **Diploma**

### *Characteristics of Learning Outcomes*

Breadth, depth and complexity covering planning and initiation of alternative approaches to skills or knowledge applications across a broad range of technical and/or management requirements, evaluation and co-ordination.

The self directed application of knowledge and skills, with substantial depth in some areas where judgment is required in planning and selecting appropriate equipment, services and techniques for self and others.

Applications involve participation in development of strategic initiatives as well as personal responsibility and autonomy in performing complex technical operations or organising others. It may include participation in teams including teams concerned with planning and evaluation functions. Group or team co-ordination may be involved.

The degree of emphasis on breadth as against depth of knowledge and skills may vary between qualifications granted at this level.

### *Distinguishing Features of Learning Outcomes*

Do the competencies or learning outcomes enable an individual with this qualification to:

- demonstrate understanding of a broad knowledge base incorporating theoretical concepts, with substantial depth in some areas
- analyse and plan approaches to technical problems or management requirements

- transfer and apply theoretical concepts and/or technical or creative skills to a range of situations
- evaluate information, using it to forecast for planning or research purposes
- take responsibility for own outputs in relation to broad quantity and quality parameters
- take some responsibility for the achievement of group outcomes.

## **Advanced Diploma**

### *Characteristics of Learning Outcomes*

Breadth, depth and complexity involving analysis, design, planning, execution and evaluation across a range of technical and/or management functions including development of new criteria or applications or knowledge or procedures.

The application of a significant range of fundamental principles and complex techniques across a wide and often unpredictable variety of contexts in relation to either varied or highly specific functions. Contribution to the development of a broad plan, budget or strategy is involved and accountability and responsibility for self and others in achieving the outcomes is involved.

Applications involve significant judgement in planning, design, technical or leadership/guidance functions related to products, services, operations or procedures.

The degree of emphasis on breadth as against depth of knowledge and skills may vary between qualifications granted at this level.

### *Distinguishing Features of Learning Outcomes*

Do the competencies or learning outcomes enable an individual with this qualification to:

- demonstrate understanding of specialised knowledge with depth in some areas
- analyse, diagnose, design and execute judgements across a broad range of technical or management functions
- generate ideas through the analysis of information and concepts at an abstract level
- demonstrate a command of wide-ranging, highly specialised technical, creative or conceptual skills
- demonstrate accountability for personal outputs within broad parameters
- demonstrate accountability for personal and group outcomes within broad parameters.

## **Vocational Graduate Certificate**

### *Characteristics of competencies or learning outcomes*

- The self-directed development and achievement of broad and specialised areas of knowledge and skills, building on prior knowledge and skills.
- Substantial breadth and complexity involving the initiation, analysis, design, planning, execution and evaluation of technical and management functions in highly varied and highly specialised contexts.
- Applications involve making significant, high-level, independent judgements in major broad or planning, design, operational, technical and management functions in highly varied and specialised contexts. They may include responsibility and broad-ranging accountability for the structure, management and output of the work or functions of others.
- The degree of emphasis on breadth, as opposed to depth, of knowledge and skills may vary between qualifications granted at this level.

### *Distinguishing features of learning outcomes*

- Demonstrate the self-directed development and achievement of broad and specialised areas of knowledge and skills, building on prior knowledge and skills.

- Initiate, analyse, design, plan, execute and evaluate major broad or technical and management functions in highly varied and highly specialised contexts.
- Generate and evaluate ideas through the analysis of information and concepts at an abstract level.
- Demonstrate a command of wide-ranging, highly specialised technical, creative or conceptual skills in complex contexts.
  - Demonstrate responsibility and broad-ranging accountability for the structure, management and output of the work or functions of others.

### **Vocational Graduate Diploma**

#### *Characteristics of competencies or learning outcomes*

- The self-directed development and achievement of broad and specialised areas of knowledge and skills, building on prior knowledge and skills.
- Substantial breadth, depth and complexity involving the initiation, analysis, design, planning, execution and evaluation of major functions, both broad and highly specialised, in highly varied and highly specialised contexts.
- Further specialisation within a systematic and coherent body of knowledge.
- Applications involve making high-level, fully independent, complex judgements in broad planning, design, operational, technical and management functions in highly varied and highly specialised contexts. They may include full responsibility and accountability for all aspects of work and functions of others, including planning, budgeting and strategy development.
- The degree of emphasis on breadth, as opposed to depth, of knowledge and skills may vary between qualifications granted at this level.

#### *Distinguishing features of learning outcomes*

- Demonstrate the self-directed development and achievement of broad and highly specialised areas of knowledge and skills, building on prior knowledge and skills.
- Initiate, analyse, design, plan, execute and evaluate major functions, both broad and within highly varied and highly specialised contexts.
- Generate and evaluate complex ideas through the analysis of information and concepts at an abstract level.
- Demonstrate an expert command of wide-ranging, highly specialised, technical, creative or conceptual skills in complex and highly specialised or varied contexts.
- Demonstrate full responsibility and accountability for personal outputs.
- Demonstrate full responsibility and accountability for all aspects of the work or functions of others, including planning, budgeting and strategy.

## **Qualifications and Packaging Rules**

### **Forest and Forest Products Industry Qualifications**

#### **Background**

The qualifications structure of FPI05:

- supports both general and sector specific qualification pathways

- provides effective qualifications at the higher AQF levels (Certificate IV and Diploma) that suit industry needs for a technical qualification and a management focused qualification, or a balance of both
- provides qualifications consisting of a small core to ensure flexibility by allowing people to choose electives to suit their job outcomes and future job choices
- allows achievement of 'skills sets' within qualifications if achievement of a total qualification is not required.

The qualifications structure incorporates the outcomes of extensive industry consultation which determined that qualifications should:

- provide maximum flexibility to allow enterprises and individuals to select combinations of units of competency relevant to their training needs
- reflect any State or Territory licensing requirements
- recognise different entry points and development pathways
- recognise the trades of Sawdoctoring and Woodmachining as discrete qualifications
- reflect realities in terms of work organisation and job design
- allow for articulation between qualifications
- create career path opportunities for people within the industry.

### **Structure of the Qualifications**

The qualification packaging rules provide maximum flexibility through the identification of mandatory units to meet occupational requirements, provision of a choice of electives to ensure enterprise needs are met, and the incorporation of relevant units from other endorsed Training Packages to facilitate portability of qualifications.

© Commonwealth of Australia 2011 **105**

F P I 05 Forest and Forest Products Training Package Version 3

To be reviewed by April 2014

#### **Assessment Guidelines**

Units within qualifications are arranged in the following broad categories:

- **Core Units**

Includes identified compulsory or 'core' units which provide generic skills, for example in areas such as communication, OHS, working effectively, quality, the environment, teamwork and first aid.

- **Elective Units**



Includes 'sector' electives to meet the requirements of technical functional areas. Units have been placed into specialist 'streams' or skills sets such as fire control, harvesting operations, timber products, sawing operations, merchandising etc. Units in this group are generally technical in nature with outcomes directly relevant to the Forest and Forest Products Industry.

Includes 'common' electives to meet the requirements of common functional areas. Units have been placed into streams such as administration and business, load handling, communication and relationships, machinery and equipment etc. Units in this group are generally cross-industry in nature.

FPI05 allows customisation of qualifications through a choice of up to two or three (depending on the qualification) electives from FPI05, other nationally endorsed Training Packages, or State/Territory accredited courses. Generally, electives from this category must be either aligned to the same AQF level outcomes, or aligned to one AQF level up or down from the level of the qualification.

The packaging of the units of competency complements, but does not infringe on the responsibilities and requirements of State and Territory based regulatory authorities. An individual seeking a qualification for a position covered by State or Territory regulatory requirements should check with the relevant Act and regulatory authority, the employer and the RTO providing the training and assessment, when selecting elective units of competency to complete a qualification.

### **Access, Equity and Cultural Diversity**

The skills required of employees in the Forest and Forest Products Industry are comprehensive and many employment opportunities are available. The qualifications in this Training Package reflect the required range of competencies and are written in a non-exclusive manner so as to increase the participation rates of all equity and disadvantaged groups and to minimise unintentional bias.

The Forest and Forest Products Industry recognises the importance of access and equity and is committed to ensuring that access to employment and training is available regardless of gender, socio-economic background, disability, ethnic origin, age or race. Catering for differences may involve adapting the physical environment, equipment, and training and assessment materials for learners. An inclusive environment is one that acknowledges and values the variations between people and cultures. It recognises and embraces difference and provides the means by which all clients have the greatest opportunity to achieve their goals.

106 © Commonwealth of Australia 2011 **106**

F P I 05 F o r e s t a n d F o r e s t P r o d u c t s T r a i n i n g P a c k a g e V e r s i o n 3

T o b e r e v i e w e d b y A p r i l 2014

### **Qualification Pathways** **Qualification Framework**

The following pathways charts are provided to show the types of pathways into and from qualifications that are possible with this Training Package. For more information about qualifications and pathways contact ForestWorks ISC.

PO Box 612

NORTH MELBOURNE VICTORIA 3051

Ph: +61 1800 177 001

Fax: +61 3 9326 7800

Email: forestworks@forestworks.com.au

Web: www.forestworks.com.au

Forest and Forest Products Industry qualifications can be achieved via a variety of pathways and training delivery and assessment options. Possible pathways include:

- work-based training and assessment
- a mixture of institution-based training and assessment and work-based training and assessment
- recognition of prior learning and current competency (RPL/RCC)
- recognition of prior learning combined with further training, as required.

In considering pathways it is important to note that assessment for the issuing of an AQF qualification in some sectors of the Forest and Forest Products Industry may be conducted in the workplace or in a simulated situation where issues of safety and/or environmental damage are limiting factors. On-the-job assessment conducted in the workplace or in a simulated situation ensures that candidates can function effectively in the real work environment and that the competencies assessed are relevant to the work site or industry.

This Training Package provides open entry at each of the AQF levels. Open entry is available at all levels provided the prospective learner's general education and competency level is equivalent to the outcome of four to five years of secondary school. Additionally, entry levels provide an option for potential learners to choose a qualification suited to their needs while providing flexibility for recruitment action by employers. Entry into all qualifications is also available through progression from a lower level qualification, and Recognition of Prior Learning (RPL) arrangements.

© Commonwealth of Australia 2011      **107**  
F P I 05 F o r e s t a n d F o r e s t P r o d u c t s T r a i n i n g P a c k a g e V e r s i o n 3  
T o b e r e v i e w e d b y A p r i l 2014

### **Assessment Guidelines**

### **Sector Qualifications**

## **Entry-level qualification**

The FPI1015 Certificate I in Forest and Forest Products is an ‘entry-level’ qualification within the Training Package to cover the basic entry level functions of an operator in the industry. These include core skills and knowledge relating to communication, working effectively in the industry, following environmental care and OHS procedures, and maintaining quality and product care.

## **Forest Growing and Management Sector**

In general, jobs in this sector are focused at AQF levels 2 and 3 covering a range of activities from planting, weeding, pruning and pest management, to falling trees, fire management and construction and maintenance of roads. Two qualifications at these levels are provided for employees in the Forest Growing and Management sector:

- FPI20105 Certificate II in Forest Growing and Management, and
- FPI30105 Certificate III in Forest Growing and Management.

This sector also calls for higher level technical skills in forest management, with a natural progression to the FPI40105 Certificate IV in Forest Operations. This qualification provides a balance of supervisory functions together with technical skills in areas such as fire control, breeding and propagation, site establishment and maintenance, tree growing and maintenance.

## **Harvesting and Haulage Sector**

Jobs in this sector are mainly focused at the operator level at AQF 3. The sector covers a range of activities from construction of roads and log-landings, plant and equipment operation, harvesting trees, to stump removal and segregating or sorting logs. Two qualifications at AQF levels 2 and 3 are provided for employees in the Harvesting and Haulage sector:

- FPI20205 Certificate II in Harvesting and Haulage, and
- FPI30205 Certificate III in Harvesting and Haulage.

A natural path for these operators is progression to the FPI40105 Certificate IV in Forest Operations which provides a balance of supervisory responsibilities together with technical skills in areas such as fire control, harvesting operations, machinery and equipment.

## **Sawmilling and Processing Sector**

Jobs in this sector are focused at AQF levels 2 and 3 covering a range of activities from sawing logs, producing hardwood or softwood chips, kiln drying, conducting end matching and finger jointing operations, to weighing loads. Two qualifications at these levels are provided for employees in the Sawmilling and Processing sector:

- FPI20305 Certificate II in Sawmilling and Processing, and
- FPI30305 Certificate III in Sawmilling and Processing.

108 © Commonwealth of Australia 2011 **108**

FPI 05 Forest and Forest Products Training Package Version 3

To be reviewed by April 2014

**Qualification Framework** A natural path for these operators is progression to the FPI40205 Certificate IV in Timber Processing which provides a balance of supervisory responsibilities together with technical skills in areas such as grading and testing, timber treatment and drying, sawing operations and competitive manufacturing.

### Wood Panel Products Sector

Jobs in this sector are focused at AQF levels 2 and 3 covering a range of activities from producing veneer, machining panel, laminating boards and assembling products, to chipping or flaking wood and cutting panels to profile. Two qualifications at these levels are provided for employees in the Wood Panel Products sector:

- FPI20405 Certificate II in Wood Panel Products, and
- FPI30405 Certificate III in Wood Panel Products.

A natural path for these operators is progression to the FPI40205 Certificate IV in Timber Processing which provides a balance of supervisory responsibilities together with technical skills in areas such as board and veneer production, timber products, timber treatment and drying, grading and testing and competitive manufacturing.

### Timber Manufactured Products Sector

Jobs in this sector are focused at AQF levels 2 and 3 covering a range of activities from dressing boards and timber, cutting material using computer programmed machinery to assembling products. Two qualifications at these levels are provided for employees in the Timber Manufactured Products sector:

- FPI20505 Certificate II in Timber Manufactured Products, and
- FPI30505 Certificate III in Timber Manufactured Products.

A natural path for these operators is progression to the FPI40205 Certificate IV in Timber Processing which provides a balance of supervisory responsibilities together with technical skills in areas such as grading and testing, timber products, trusses and frames, logyard and material preparation and competitive manufacturing.

Additionally, new qualifications designed specifically for the Truss and Frame sector of the industry now cover the complete range of jobs in both manufacture and design in this highly specialised area:

- FPI20710 Certificate II in Timber Truss and Frame Design and Manufacture
- FPI30910 Certificate III in Timber Truss and Frame Design and Manufacture
- FPI40310 Certificate IV in Timber Truss and Frame Manufacture
- FPI40410 Certificate II in Timber Truss and Frame Design
- FPI50310 Diploma of Timber Truss and Frame Manufacture
- FPI50410 Diploma of Timber Truss and Frame Design

© Commonwealth of Australia 2011 **109**

FPI 05 Forest and Forest Products Training Package Version 3

To be reviewed by April 2014

### **Assessment Guidelines**

#### **Timber Merchandising Sector**

Jobs in this sector are focused at AQF levels 2 and 3 covering a range of activities from stock control, estimating and costing jobs, cutting and machining material and grading products, to sales and customer service. Two qualifications at these levels are provided for employees in the Timber Merchandising sector:

- FPI20605 Certificate II in Timber Merchandising, and
- FPI30605 Certificate III in Timber Merchandising.

A natural path for these operators is progression to the FPI40205 Certificate IV in Timber Processing which provides a balance of supervisory responsibilities together with technical skills in areas such as logyard and material preparation and retail.

### **Trades**

There are two trade qualifications at the AQF 3 level. The FPI30705 Certificate III in Sawdoctoring provides specialist coverage of sawdoctoring competencies, for example hand sharpening knives and blades, welding, aligning sawing production systems and assessing and maintaining saw and cutter performance. This qualification will ensure the integrity of the sawdoctoring trade by maintaining an appropriate depth of knowledge and skills and level of technical competence in sawdoctoring.

The FPI30805 Certificate III in Woodmachining also provides some specialist coverage of sawdoctoring competencies, but has a focus on an in-depth knowledge of timber technology. Progression from the trades would naturally be to FPI40205 Certificate IV in Timber Processing.

## Diploma Qualifications

The FPI50105 Diploma of Forest and Forest Products provides a management pathway for all qualifications within the Training Package. While there is a balance between technical and generic management outcomes within the qualification, there is an emphasis on management, for example in areas such as planning and managing inventory programs, genetic resources, propagation programs, native forest regeneration, product design and panel production.

As mentioned above V2 of the FPI05 Training Package introduced two sector-specific Diploma qualifications for the Timber Truss and Frame.

## Advanced Diploma Qualification

The FPI60110 Advanced Diploma of Forest Industry Sustainability recognises the emerging needs of the industry to provide pathways and links to the higher education sector via graduate certificate or degree programs in forestry or environmental science such as the new Graduate Certificate in Timber (Processing and Building) at the Centre for Sustainable Architecture with Wood, University of Tasmania.

## Introduction to the Industry

### Introduction to the Industry

The Forest and Forest Products Industry covers a diverse range of activities from growing and management of plantation and native forest resources, through harvesting, sawmilling and processing, to the manufacture, merchandising and retailing of finished products. The industry is characterised by a mix of small, medium and large enterprises. Some enterprises show a high degree of vertical integration, being involved in activities across the six industry sectors. The six industry sectors are:

- Forest Growing and Management
- Harvesting and Haulage
- Sawmilling and Processing
- Timber Manufactured Products
- Timber Merchandising
- Wood Panel Products.

## Skill Sets in this Training Package

### Skill Sets in this Training Package

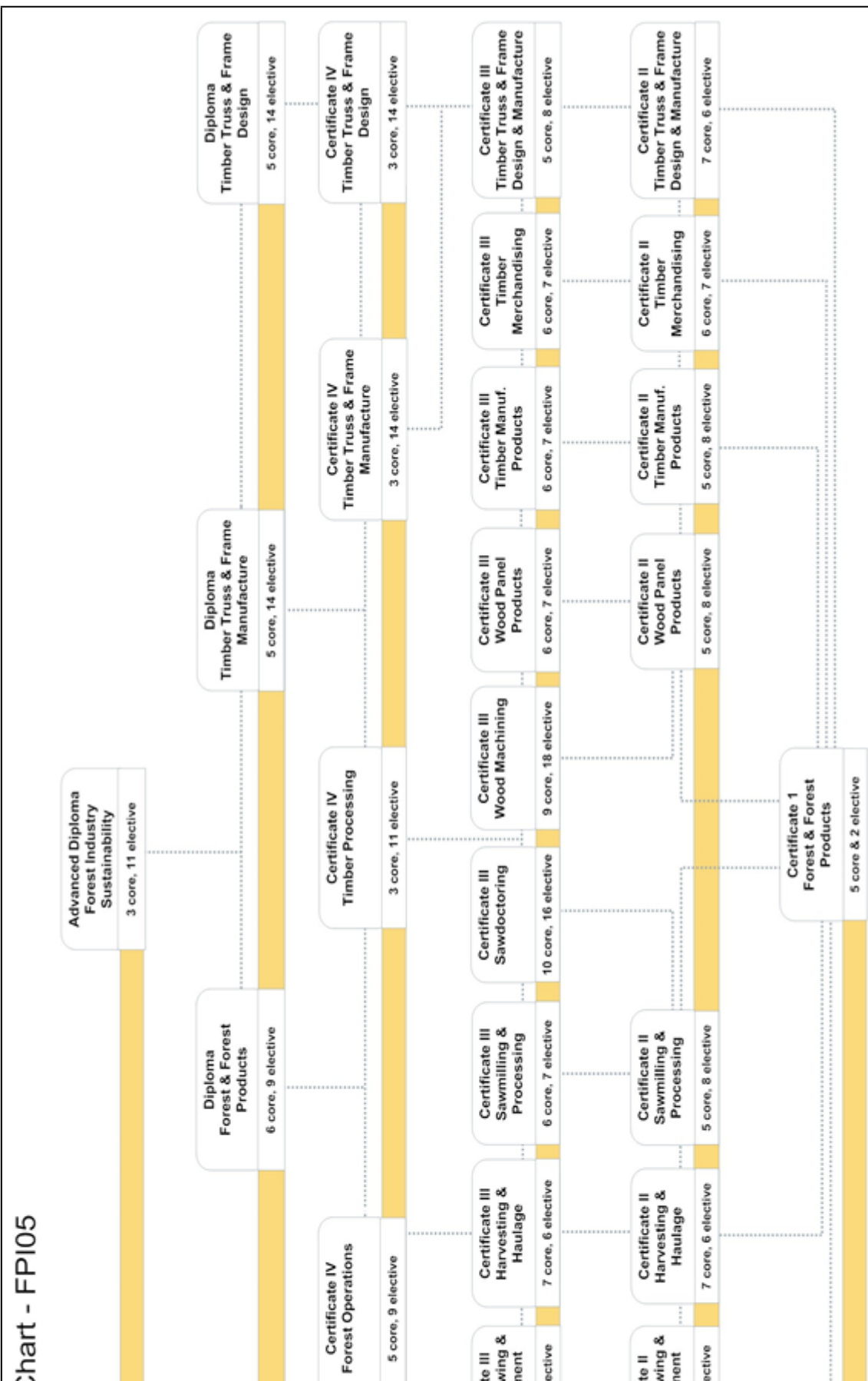
Skill set for a crawler/dozer operator

<b>Skill Sets in this Training Package</b>
Skill set for a crawler/dozer operator
Skill set for a skidder operator
Skill set for a loader operator
Skill set for a forwarder operator
Skill set for a feller buncher operator
Skill set for a boom delimber operator
Skill set for an excavator operator
Skill set for a mechanical processor operator
Skill set for a single grip harvester operator
Skill set for a heavy production mobile chipper operator

## Qualification Pathways

<b>Qualification Pathways</b>
-------------------------------





## Competency Standards - Industry Contextualisation

### Competency Standards - Industry Contextualisation

## Assessment Guidelines

### Introduction

These Assessment Guidelines provide the endorsed framework for assessment of units of competency in this Training Package. They are designed to ensure that assessment is consistent with the *Australian Quality Training Framework (AQTF) Essential Standards for Initial and Continuing Registration*. Assessments against the units of competency in this Training Package must be carried out in accordance with these Assessment Guidelines.

### Assessment System Overview

This section provides an overview of the requirements for assessment when using this Training Package, including a summary of the AQTF requirements; licensing and registration requirements; and assessment pathways.

Quality assessment underpins the credibility of the vocational education and training sector. The Assessment Guidelines of a Training Package are an important tool in supporting quality assessment.

Assessment within the National Skills Framework is the process of collecting evidence and making judgements about whether competency has been achieved to confirm whether an individual can perform to the standards expected in the workplace, as expressed in the relevant endorsed unit of competency.

Assessment must be carried out in accordance with the:

- benchmarks for assessment
- specific industry requirements
- principles of assessment
- rules of evidence
- assessment requirements set out in the AQTF

### Benchmarks for Assessment

The endorsed units of competency in this Training Package are the benchmarks for assessment. As such, they provide the basis for nationally recognised Australian Qualifications Framework (AQF) qualifications and Statements of Attainment issued by Registered Training Organisations (RTOs).

### Principles of Assessment

All assessments carried out by RTOs are required to demonstrate compliance with the principles of assessment:

- validity
- reliability
- flexibility
- fairness
- sufficiency

These principles must be addressed in the:

- design, establishment and management of the assessment system for this Training Package
- development of assessment tools, and
- the conduct of assessment.

#### *Validity*

Assessment is valid when the process is sound and assesses what it claims to assess. Validity requires that:

- (a) assessment against the units of competency must cover the broad range of skills and knowledge that are essential to competent performance
- (b) assessment of knowledge and skills must be integrated with their practical application
- (c) judgement of competence must be based on sufficient evidence (that is, evidence gathered on a number of occasions and in a range of contexts using different assessment methods). The specific evidence requirements of each unit of competency provide advice on sufficiency

#### *Reliability*

Reliability refers to the degree to which evidence presented for assessment is consistently interpreted and results in consistent assessment outcomes. Reliability requires the assessor to have the required competencies in assessment and relevant vocational competencies (or to assess in conjunction with someone who has the vocational competencies). It can only be achieved when assessors share a common interpretation of the assessment requirements of the unit(s) being assessed.

#### *Flexibility*

To be flexible, assessment should reflect the candidate's needs; provide for recognition of competencies no matter how, where or when they have been acquired; draw on a range of methods appropriate to the context, competency and the candidate; and support continuous competency development.

#### *Fairness*

Fairness in assessment requires consideration of the individual candidate's needs and characteristics, and any reasonable adjustments that need to be applied to take account of them. It requires clear communication between the assessor and the candidate to ensure that the candidate is fully informed about, understands and is able to participate in, the assessment process, and agrees that the process is appropriate. It also includes an opportunity for the person being assessed to challenge the result of the assessment and to be reassessed if necessary.

### *Sufficiency*

Sufficiency relates to the quality and quantity of evidence assessed. It requires collection of enough *appropriate* evidence to ensure that all aspects of competency have been satisfied and that competency can be demonstrated repeatedly. Supplementary sources of evidence may be necessary. The specific evidence requirements of each unit of competency provide advice on sufficiency. Sufficiency is also one of the rules of evidence.

### **Rules of Evidence**

The rules of evidence guide the collection of evidence that address the principles of validity and reliability, guiding the collection of evidence to ensure that it is valid, sufficient, current and authentic.

### *Valid*

Valid evidence must relate directly to the requirements of the unit of competency. In ensuring evidence is valid, assessors must ensure that the evidence collected supports demonstration of the outcomes and performance requirements of the unit of competency together with the knowledge and skills necessary for competent performance. Valid evidence must encapsulate the breadth and depth of the unit of competency, which will necessitate using a number of different assessment methods.

### *Sufficient*

Sufficiency relates to the quality and quantity of evidence assessed. It requires collection of enough appropriate evidence to ensure that all aspects of competency have been satisfied and that competency can be demonstrated repeatedly. Supplementary sources of evidence may be necessary. The specific evidence requirements of each unit of competency provide advice on sufficiency.

### *Current*

In assessment, currency relates to the age of the evidence presented by a candidate to demonstrate that they are still competent. Competency requires demonstration of current performance, so the evidence collected must be from either the present or the very recent past.

### *Authentic*

To accept evidence as authentic, an assessor must be assured that the evidence presented for assessment is the candidate's own work.

### **Assessment Requirements of the Australian Quality Training Framework**

Assessment leading to nationally recognised AQF qualifications and Statements of Attainment in the vocational education and training sector must meet the requirements of the AQTF as expressed in the AQTF 2010 *Essential Standards for Registration*.

The AQTF 2010 *Essential Standards for Initial and Continuing Registration* can be downloaded from <[www.training.com.au](http://www.training.com.au)>.

The following points summarise the assessment requirements.

**Registration of Training Organisations**

Assessment must be conducted by, or on behalf of, an RTO formally registered by a State or Territory Registering Body in accordance with the AQTF. The RTO must have the specific units of competency and/or AQF qualifications on its scope of registration.

**Quality Training and Assessment**

Each RTO must provide quality training and assessment across all its operations. See the AQTF 2010 *Essential Standards for Initial and Continuing Registration*, Standard 1.

**Assessor Competency Requirements**

Each person involved in training and assessment must be competent for the functions they perform. See the AQTF 2010 *Essential Standards for Initial and Continuing Registration*, Standard 1 for assessor (and trainer) competency requirements. See also the AQTF 2010 *Users' Guide to the Essential Standards for Registration* – Appendix 2.

**Assessment Requirements**

The RTOs assessments, including RPL, must meet the requirements of the relevant endorsed Training Package. See the AQTF 2010 *Essential Standards for Initial and Continuing Registration*.

**Assessment Strategies**

Each RTO must have strategies for training and assessment that meet the requirements of the relevant Training Package or accredited course and are developed in consultation with industry stakeholders. See the AQTF 2010 *Essential Standards for Initial and Continuing Registration*.

**National Recognition**

Each RTO must recognise the AQF qualifications and Statements of Attainment issued by any other RTO. See the AQTF 2010 *Essential Standards for Initial and Continuing Registration*.

**Access and Equity and Client Outcomes**

Each RTO must adhere to the principles of access and equity and maximise outcomes for its clients. See the AQTF 2010 *Essential Standards for Initial and Continuing Registration*.

**Monitoring Assessments**

Training and/or assessment provided on behalf of the RTO must be monitored to ensure that it is in accordance with all aspects of the AQTF 2010 *Essential Standards for Initial and Continuing Registration*.

**Recording Assessment Outcomes**

Each RTO must manage records to ensure their accuracy and integrity. See the AQTF 2010 *Essential Standards for Initial and Continuing Registration*.

**Issuing AQF qualifications and Statement of Attainment**

Each RTO must issue AQF qualifications and Statements of Attainment that meet the requirements of the current *AQF Implementation Handbook* and the endorsed Training Packages within the scope of its registration. An AQF qualification is issued once the full requirements for a qualification, as specified in the nationally endorsed Training Package are met. A Statement of Attainment is issued when an individual has completed one or more units of competency from nationally recognised qualification(s)/courses(s). See the AQTF and the edition of the *AQF Implementation Handbook*—available on the AQF Council website <[www.aqf.edu.au](http://www.aqf.edu.au)>

## Licensing/Registration Requirements

This section provides information on licensing/registration requirements for this Training Package, with the following important disclaimer.

Licensing and registration requirements that apply to specific industries, and vocational education and training, vary between each State and Territory, and can regularly change. The developers of this Training Package, and DEEWR, consider that the licensing/registration requirements described in this section apply to RTOs, assessors or candidates with respect to this Training Package. While reasonable care has been taken in its preparation, the developers of this Training Package and DEEWR cannot guarantee that the list is definitive or accurate at the time of reading; the information in this section is provided in good faith on that basis.

Contact the relevant State or Territory Department(s) to check if the licensing/registration requirements described below still apply, and to check if there are any others with which you must comply. For further information contact <http://www.forestworks.com.au>.

Jurisdiction: Australian Capital Territory	
License/ Registration	Website Details
Boom-type elevating work platform (boom length 11m or more) Forklift truck Front End Loader Front End Loader/Backhoe Front End Loader (Skid Steer type) Excavator	ACT Office of Regulatory Services <a href="http://www.ors.act.gov.au">www.ors.act.gov.au</a>
Pest Management Technician Fumigator	WorkCover New South Wales <a href="http://www.workcover.nsw.gov.au">www.workcover.nsw.gov.au</a> (ACT operators are licensed via this NSW department)
Jurisdiction: New South Wales	
License/ Registration	Website Details
Boom-type elevating work platform (boom length 11m or more) Forklift truck Front End Loader Front End Loader/Backhoe Front End Loader (Skid Steer type) Excavator Pest Management Technician Fumigator	WorkCover New South Wales <a href="http://www.workcover.nsw.gov.au">www.workcover.nsw.gov.au</a>
Shot Firer	Department of Mineral Resources <a href="http://www.minerals.nsw.gov.au">www.minerals.nsw.gov.au</a>
Chainsaw Operator	State Forests of NSW

Manual Tree Faller Machine Operator Truck Driver Log Grader/Segregator Harvesting Supervisor Other Operator (Mechanic)	<a href="http://www.forest.nsw.gov.au/">www.forest.nsw.gov.au/</a>
---	--

**Jurisdiction: Northern Territory**

License/ Registration	Website Details
Industrial truck (forklift) operation Shot firer	NT WorkSafe <a href="http://www.worksafe.nt.gov.au">www.worksafe.nt.gov.au</a>
Pest Control Operator Provisional Pest Control Operator	Northern Territory Department of Health and Community Services <a href="http://www.nt.gov.au/health">www.nt.gov.au/health</a>

**Jurisdiction: Queensland**

License/ Registration	Website Details
Operator of a boom type elevating work platform with a boom length of 11m or more Operator of a dozer Operator of an excavator (engine capacity of more than 2L) Operator of a fork lift truck (other than pedestrian operated) Operator of a front end loader (engine capacity of more than 2L) Operator of a front end loader/backhoe (engine capacity of more than 2L) Operator of a grader Operator of a roller (engine capacity of more than 2L) Operator of a skid steer loader (engine capacity of more than 2L) Operator of a scraper	Workplace Health and Safety NT <a href="http://www.deir.qld.gov.au">www.deir.qld.gov.au</a>
Shot Firer	Department of Mines and Energy <a href="http://www.dme.qld.gov.au/mines">www.dme.qld.gov.au/mines</a>
Pest Management Technician	Queensland Health <a href="http://www.health.qld.gov.au">www.health.qld.gov.au</a>

<b>Jurisdiction: Northern Territory</b>	
<b>Jurisdiction: South Australia</b>	
<b>License/ Registration</b>	<b>Website Details</b>
Forklift truck Front End Loader Front End Loader/Backhoe Front End Loader (Skid Steer type) Excavator Dozer	South Australia Workcover Corporation <a href="http://www.workcover.com">www.workcover.com</a>
Blaster	SafeWork SA <a href="http://www.safework.sa.gov.au">www.safework.sa.gov.au</a>
Pest Controller Pest Management Technician	Environment Protection Authority <a href="http://www.epa.sa.gov.au">www.epa.sa.gov.au</a>
<b>Jurisdiction: Tasmania</b>	
<b>License/ Registration</b>	<b>Website Details</b>
Boom-type elevating work platform (boom length 11m or more) Forklift truck	Workplace Standards Tasmania <a href="http://www.wst.tas.gov.au">www.wst.tas.gov.au</a>
Dozer Traxcavator Skidder Excavator Fulghum Log Handler Loader Grader Chainsaw Mechanical Harvesting Cable Logging	Workcover Tasmania <a href="http://www.workcover.tas.gov.au">www.workcover.tas.gov.au</a>
Pest Management Technician	Department of Primary Industries, Water and Environment <a href="http://www.dpiwe.tas.gov.au">www.dpiwe.tas.gov.au</a>
<b>Jurisdiction: Victoria</b>	
<b>License/ Registration</b>	<b>Website Details</b>
Boom-type elevating work platform (boom length 11m or more) Forklift truck	WorkSafe Victoria <a href="http://www.worksafe.vic.gov.au">www.worksafe.vic.gov.au</a>



Jurisdiction: Northern Territory	
Front End Loader Front End Loader/Backhoe Front End Loader (Skid Steer type) Excavator	
Blasting explosives	Department of Primary Industries <a href="http://www.dpi.vic.gov.au">www.dpi.vic.gov.au</a>
Chainsaw Operator Faller Machine Operator Truck Driver Tree Climber	Department of Sustainability and Environment <a href="http://www.dse.vic.gov.au">www.dse.vic.gov.au</a>
Pest Management Technician Pest Management Trainee	Department of Human Services <a href="http://www.dhs.vic.gov.au">www.dhs.vic.gov.au</a>
Jurisdiction: Western Australia	
License/ Registration	Website Details
Forklift operation (optional) Boom-type elevating work platform (boom length 11m or more)	Department of Consumer and Employment Protection (Worksafe) <a href="http://www.safetyline.wa.gov.au">www.safetyline.wa.gov.au</a>
Shot Firer	Department of Commerce <a href="http://www.commerce.wa.gov.au">www.commerce.wa.gov.au</a>
Pest Management Technician Fumigator	Department of Health <a href="http://www.health.wa.gov.au">www.health.wa.gov.au</a>

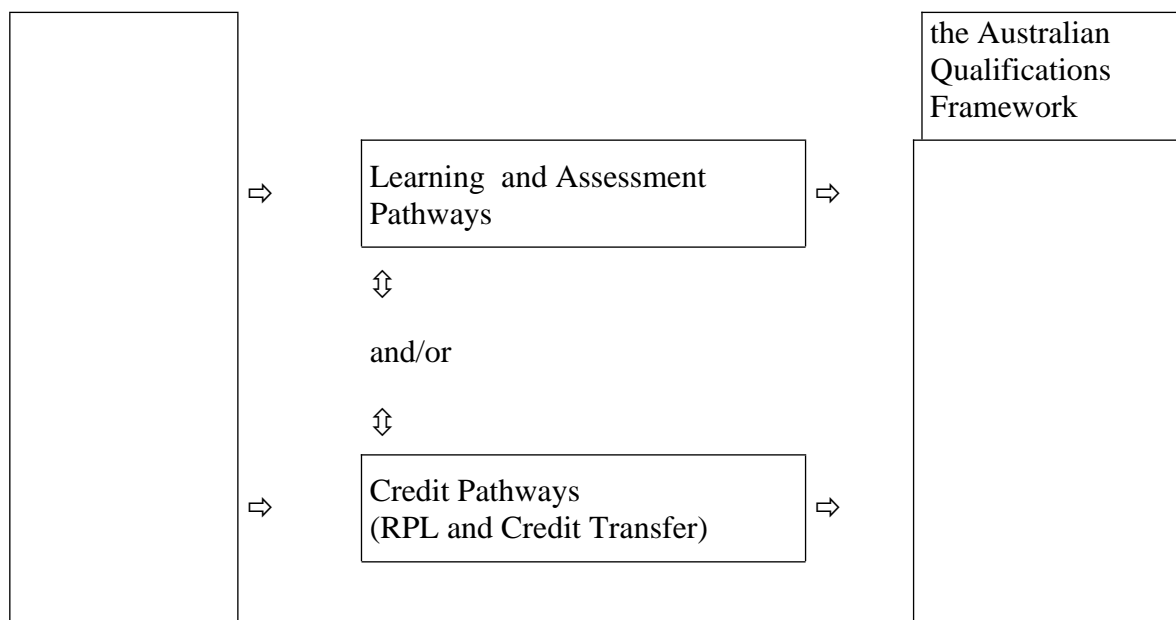
### Pathways

The competencies in this Training Package may be attained in a number of ways including through:

- formal or informal education and training
- experiences in the workplace
- general life experience, and/or
- any combination of the above.

Assessment under this Training Package leading to an AQF qualification or Statement of Attainment may follow a learning and assessment pathway, or a recognition pathway, or a combination of the two as illustrated in the following diagram.





Each of these assessment pathways leads to full recognition of competencies held – the critical issue is that the candidate is competent, not how the competency was acquired. Assessment, by any pathway, must comply with the assessment requirements set out in the Assessment Guidelines of the Training Package, the AQTF and, where relevant, the Australian Qualifications Framework.

### **Learning and Assessment Pathways**

Usually, learning and assessment are integrated, with evidence being collected and feedback provided to the candidate at anytime throughout the learning and assessment process. Learning and assessment pathways may include structured programs in a variety of contexts using a range of strategies to meet different learner needs. Structured learning and assessment programs could be: group-based, work-based, project-based, self-paced, action learning-based; conducted by distance or e-learning; and/or involve practice and experience in the workplace.

Learning and assessment pathways to suit Australian Apprenticeships have a mix of formal structured training and structured workplace experience with formative assessment activities through which candidates can acquire and demonstrate skills and knowledge from the relevant units of competency.

### **Credit Pathways**

*Credit* is the value assigned for the recognition of equivalence in content between different types of learning and/or qualifications which reduces the volume of learning required to achieve a qualification.

Credit arrangements must be offered by all RTOs that offer Training Package qualifications. Each RTO must have a systematic institutional approach with clear, accessible and transparent policies and procedures.

Competencies already held by individuals can be formally assessed against the units of competency in this Training Package, and should be recognised regardless of how, when or where they were acquired, provided that the learning is relevant to the unit of competency outcomes.

## **Recognition of Prior Learning**

Recognition of Prior Learning (RPL) is an assessment process which determines the credit outcomes of an individual application for credit.

The availability of Recognition of Prior Learning (RPL) provides all potential learners with access to credit opportunities.

The recognition of prior learning pathway is appropriate for candidates who have previously attained skills and knowledge and who, when enrolling in qualifications, seek to shorten the duration of their training and either continue or commence working. This may include the following groups of people:

- existing workers;
- individuals with overseas qualifications;
- recent migrants with established work histories;
- people returning to the workplace; and
- people with disabilities or injuries requiring a change in career.

As with all assessment, RPL assessment should be undertaken by academic or teaching staff with expertise in the subject, content of skills area, as well as knowledge of and expertise in RPL assessment policies and procedures.

Assessment methods used for RPL should provide a range of ways for individuals to demonstrate that they have met the required outcomes and can be granted credit. These might include:

- questioning (oral or written)
- consideration of a portfolio and review of contents
- consideration of third party reports and/or other documentation such as documentation such as articles, reports, project material, papers, testimonials or other products prepared by the RPL applicant that relate to the learning outcomes of the relevant qualification component
- mapping of learning outcomes from prior formal or non-formal learning to the relevant qualification components
- observation of performance, and
- participation in structured assessment activities the individual would normally be required to undertake if they were enrolled in the qualification component/s.

In a Recognition of Prior Learning (RPL) pathway, the candidate provides current, quality evidence of their competency against the relevant unit of competency. This process may be directed by the candidate and verified by the assessor. Where the outcomes of this process indicate that the candidate is competent, structured training is not required. The RPL requirements of the AQTF must be met.

As with all assessment, the assessor must be confident that the evidence indicates that the candidate is currently competent against the endorsed unit of competency. This evidence may take a variety of forms and might include certification, references from past employers, testimonials from clients, work samples and/or observation of the candidate. The onus is on candidates to provide sufficient evidence to satisfy assessors that they currently hold the relevant competencies. In judging evidence, the assessor must ensure that the evidence of prior learning is:

- authentic (the candidate's own work);
- valid (directly related to the current version of the relevant endorsed unit of competency);
- reliable (shows that the candidate consistently meets the endorsed unit of competency);
- current (reflects the candidate's current capacity to perform the aspect of the work covered by the endorsed unit of competency); and
- sufficient (covers the full range of elements in the relevant unit of competency and addresses the four dimensions of competency, namely task skills, task management skills, contingency management skills, and job/role environment skills).

### **Credit Transfer**

*Credit transfer is a process which provides learners with agreed and consistent credit outcomes based on equivalences in content between matched qualifications.*

This process involves education institutions:

- mapping, comparing and evaluating the extent to which the defined *learning outcomes and assessment requirements* of the individual *components of one qualification* are equivalent to the learning outcomes and assessment requirements of the individual components of another qualification
- making an educational judgment of the credit outcomes to be assigned between the matched components of the two qualifications
- setting out the agreed credit outcomes in a documented arrangement or agreement, and
- publicising the arrangement/agreement and credit available.

### **Combination of Pathways**

Credit may be awarded on the basis of a combination of credit transfer plus an individual RPL assessment for additional learning. Once credit has been awarded on the basis of RPL, subsequent credit transfer based on these learning outcomes should not include revisiting the RPL assessment but should be based on credit transfer or articulation or other arrangements between providers.

Where candidates for assessment have gained competencies through work and life experience and gaps in their competence are identified, or where they require training in new areas, a combination of pathways may be appropriate.

In such situations, the candidate may undertake an initial assessment to determine their current competency. Once current competency is identified, a structured learning and assessment program ensures that the candidate acquires the required additional competencies identified as gaps.

### Assessor Requirements

This section identifies the specific requirements on the vocational competence and experience for assessors, to ensure that they meet the needs of industry and their obligations under AQTF, and clarifies how others may contribute to the assessment process where one person alone does not hold all the required competencies.

### Assessor Competencies

The AQTF specifies mandatory competency requirements for assessors. For information, Element 1.4 from the AQTF 2007 *Essential Standards for Registration* follows:

1.4 Training and assessment are conducted by trainers and assessors who:

- a) have the necessary training and assessment competencies as determined by the National Quality Council or its successors, and
- b) have the relevant vocational competencies at least to the level being delivered or assessed, and
- c) can demonstrate current industry skills directly relevant to the training/assessment being undertaken, and
- d) continue to develop their Vocational Education and Training (VET) knowledge and skills as well as their industry currency and trainer/assessor competence.

\* See AQTF 2010 *Users' Guide to the Essential Standards for Registration* – Appendix 2

### Designing Assessment Tools

This section provides an overview on the use and development of assessment tools.

#### Use of Assessment Tools

Assessment tools provide a means of collecting the evidence that assessors use in making judgements about whether candidates have achieved competency.

There is no set format or process for the design, production or development of assessment tools. Assessors may use prepared assessment tools, such as those specifically developed to support this Training Package, or they may develop their own.

#### Using Prepared Assessment Tools

If using prepared assessment tools, assessors should ensure these relate to the current version of the relevant unit of competency. The current unit of competency can be checked on the National Register <[www.ntis.gov.au](http://www.ntis.gov.au)>.

#### Developing Assessment Tools

When developing their own assessment tools, assessors must ensure that the tools:

- are benchmarked against the relevant unit or units of competency;
- are reviewed as part of the validation of assessment strategies required under the AQTF; and
- meet the assessment requirements expressed in the AQTF 2010 *Essential Standards for Initial and Continuing Registration*.

A key reference for assessors developing assessment tools is TAE10 Training and Education Training Package.

## **Language, Literacy and Numeracy**

The design of assessment tools must reflect the language, literacy and numeracy competencies required for the performance of a task in the workplace and not exceed these expectations.

## **Conducting Assessment**

This section details the mandatory assessment requirements and provides information on equity in assessment including reasonable adjustment.

### **Mandatory Assessment Requirements**

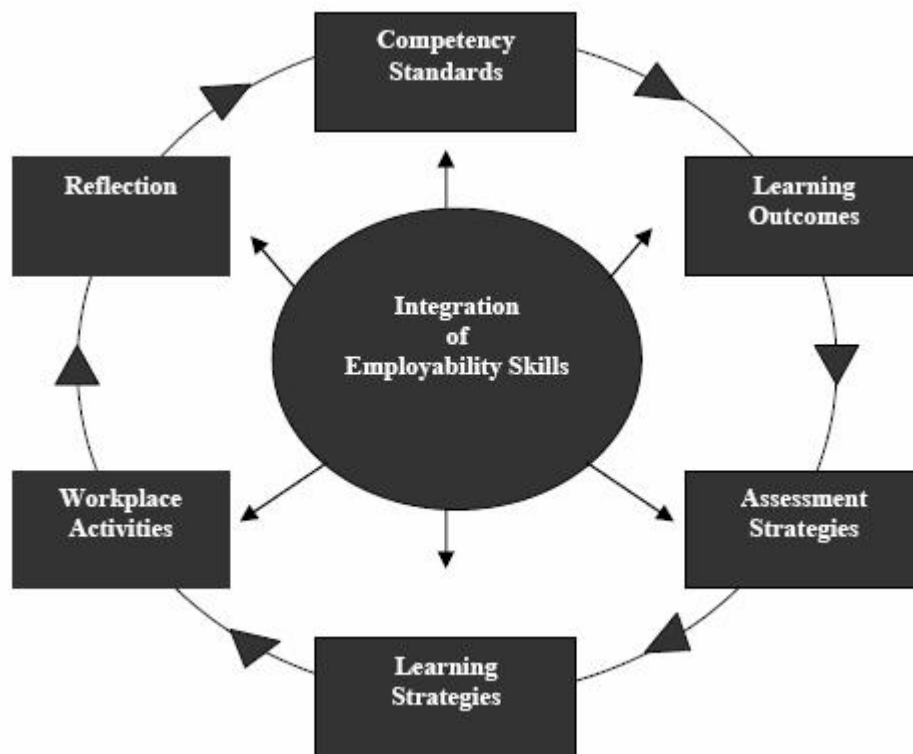
Assessments must meet the criteria set out in the AQTF 2010 *Essential Standards for Initial and Continuing Registration*. For information, the mandatory assessment requirements from Standard 1 from the AQTF 2010 *Essential Standards for Initial and Continuing Registration* are as follows:

#### **1.5 Assessment, including Recognition of Prior Learning (RPL):**

- a) meets the requirements of the relevant Training Package or accredited course
- b) is conducted in accordance with the principles of assessment and the rules of evidence
- c) meets workplace and, where relevant, regulatory requirements
- d) is systematically validated.

## **Assessment of Employability Skills**

Employability Skills are integral to workplace competency. As such, they must be considered in the design, customisation, delivery and assessment of vocational education and training programs in an integrated and holistic way, as represented diagrammatically below.



Employability Skills are embedded within each unit of competency, and an Employability Skills Summary is available for each qualification. Training providers must use Employability Skills information in order to design valid and reliable training and assessment strategies. This analysis could include:

- reviewing units of competency to locate relevant Employability Skills and determine how they are applied within the unit
- analysing the Employability Skills Summary for the qualification in which the unit or units are packaged to help clarify relevant industry and workplace contexts and the application of Employability Skills at that qualification outcome
- designing training and assessment to address Employability Skills requirements.

The National Quality Council has endorsed a model for assessing and reporting Employability Skills, which contains further suggestions about good practice strategies in teaching, assessing, learning and reporting Employability Skills. The model is available from <http://www.training.com.au/>.

The endorsed approach includes learners downloading qualification specific Employability Skills Summaries for Training Package qualifications from an online repository at <http://employabilityskills.training.com.au>

For more information on Employability Skills in Forest and Forest Product Training Packages go to the ForestWorks ISC website at [www.forestworks.com.au](http://www.forestworks.com.au) <http://www..>

Employability Skills are reported on each qualification using the following statement on the qualification testamur: "A summary of the Employability Skills developed through this qualification can be downloaded from <http://employabilityskills.training.com.au> "

## **Access and Equity**

An individual's access to the assessment process should not be adversely affected by restrictions placed on the location or context of assessment beyond the requirements specified in this Training Package: training and assessment must be bias-free.

Under the rules for their development, Training Packages must reflect and cater for the increasing diversity of Australia's VET clients and Australia's current and future workforce. The flexibilities offered by Training Packages should enhance opportunities and potential outcomes for all people so that we can all benefit from a wider national skills base and a shared contribution to Australia's economic development and social and cultural life.

## **Reasonable Adjustments**

It is important that education providers take meaningful, transparent and reasonable steps to consult, consider and implement reasonable adjustments for students with disability.

Under the Disability Standards for Education 2005, education providers must make reasonable adjustments for people with disability to the maximum extent that those adjustments do not cause that provider unjustifiable hardship. While 'reasonable adjustment' and 'unjustifiable hardship' are different concepts and involve different considerations, they both seek to strike a balance between the interests of education providers and the interests of students with and without disability.

An adjustment is any measure or action that a student requires because of their disability, and which has the effect of assisting the student to access and participate in education and training on the same basis as students without a disability. An adjustment is reasonable if it achieves this purpose while taking into account factors such as the nature of the student's disability, the views of the student, the potential effect of the adjustment on the student and others who might be affected, and the costs and benefits of making the adjustment.

An education provider is also entitled to maintain the academic integrity of a course or program and to consider the requirements or components that are inherent or essential to its nature when assessing whether an adjustment is reasonable. There may be more than one adjustment that is reasonable in a given set of circumstances; education providers are required to make adjustments that are reasonable and that do not cause them unjustifiable hardship.

The Training Package Guidelines provides more information on reasonable adjustment, including examples of adjustments. Go to <http://www.deewr.gov.au/tpdh/Pages/home.aspx>.

## **Further Sources of Information**

*The section provides a listing of useful contacts and resources to assist assessors in planning, designing, conducting and reviewing of assessments against this Training Package.*

## **Contacts**

Industry Skills Council [www.forestworks.com.au](http://www.forestworks.com.au) <http://www.forestworks.com.au>

Technical and Vocational Education and  
Training (TVET) Australia Limited  
Level 21, 390 St Kilda Road, Melbourne  
VIC 3150  
PO Box 12211, A'Beckett Street Post Office,  
Melbourne, Victoria, 8006  
Ph: +61 3 9832 8100



Fax: +61 3 9832 8198  
Email: [sales@tvetaustralia.com.au](mailto:sales@tvetaustralia.com.au)  
Web: [www.tvetaustralia.com.au](http://www.tvetaustralia.com.au)

For information on the TAE10 Training and Education Training Package contact:  
Innovation & Business Skills Australia  
Telephone: (03) 9815 7000  
Facsimile: (03) 9815 7001  
Email: [virtual@ibsa.org.au](mailto:virtual@ibsa.org.au)  
Web: [www.ibsa.org.au](http://www.ibsa.org.au)

### **General Resources**

*AQF Implementation Handbook, Fourth Edition 2007. Australian Qualifications Framework Advisory Board, 2002* <[www.aqf.edu.au](http://www.aqf.edu.au)>

*Australian Quality Training Framework (AQTF) and AQTF 2010 Users' Guide to the Essential Standards for Registration –*  
<http://www.training.com.au/pages/menuitem5cbe14d51b49dd34b225261017a62dbc.aspx>

For general information and resources go to <http://www.training.com.au/>

The National Register is an electronic database providing comprehensive information about RTOs, Training Packages and accredited courses - <[www.ntis.gov.au](http://www.ntis.gov.au)>

The Training Package Development Handbook site provides National Quality Council policy for the development of Training Packages. The site also provides guidance material for the application of that policy, and other useful information and links.

<http://www.deewr.gov.au/Skills/Overview/Policy/TPDH/Pages/main.aspx>

### **Assessment Resources**

Registered training organisations (RTOs) are at the forefront of vocational education and training (VET) in Australia. They translate the needs of industry into relevant, quality, client-focussed training and assessment.

RTOs should strive for innovation in VET teaching and learning practices and develop highly flexible approaches to assessment which take cognisance of specific needs of learners, in order to improve delivery and outcomes of training.

Resources can be purchased or accessed from:

- TVET Australia – provides an integrated service to enable users of the national training system to identify and acquire training materials, identify copyright requirements and enter licenses for use of that material consistent with the scope and direction of the NQC.

<http://www.productservices.tvetaustralia.com.au/>

ForestWorks Ltd

PO Box 612

NORTH MELBOURNE VICTORIA 3051

Ph: +61 1800 177 001

Fax: +61 3 9326 7800

Email: [forestworks@forestworks.com.au](mailto:forestworks@forestworks.com.au) <http://www.forestworks.com.au>

Web: [www.forestworks.com.au](http://www.forestworks.com.au) <http://www.forestworks.com.au>