

Modification history

Release	Comments
Release 1	This version released with FWP Forest and Wood Products Training Package Version 6.0.

FWPCOT3XXX	Assess timber for manufacturing potential
Application	<p>This unit of competency describes the skills and knowledge required to assess timber for its manufacturing potential for frame and truss construction. It includes assessing timber for the ability to hold nail plates and retain engineered strength ratings with particular attention given to serviceability.</p> <p>Work is completed in a factory environment, usually as part of production of prefabricated trusses, frames and floors.</p> <p>This unit is suitable for those with the knowledge and skills to undertake specified activities under the direction of more experienced workers.</p> <p>No licensing, legislative or certification requirements apply to this unit at the time of publication.</p>
Prerequisite Unit	Nil
Unit Sector	Common technical (COT)

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Prepare for assessing	1.1 Read work order and job specifications to identify type and quantity of material to be assessed and where required and confirm with appropriate personnel 1.2 Read and interpret workplace safety and environmental requirements relating to timber assessing 1.3 Sequence stages for timber assessment and movement of materials to maximise production outputs 1.4 Select appropriate equipment for assessing timber potential and check for serviceability in line with manufacturer's recommendations
2. Assess timber	2.1 Access storage area and select materials 2.2 Evaluate timber characteristics and defects against industry and Australian Standards to determine plating potential 2.3 Measure sectional sizes and lengths of materials to meet job specifications 2.3 Separate unsuitable materials for plating or sawing 2.4 Orientate timber components to make best use of characteristics
3. Distribute material	3.1 Organise movement of material for processing operations 3.2 Label material using numerical grades in line with workplace procedures 3.3 Coordinate efficient movement for manufacturing process of assessed timber to maximise production outputs 3.4 Monitor on-site movement of material to ensure intended flow is achieved 3.5 Recycle unsuitable timber for plating to minimise wastage and relocate to storage area 3.6 Dispose of defective material following workplace and environmental requirements 3.7 Record assessment outcomes and distribution problems and report to appropriate personnel

Foundation Skills	
<i>This section describes those language, literacy, numeracy and employment skills that are essential for performance in this unit of competency but are not explicit in the performance criteria.</i>	
Skill	Description
Oral communication	<ul style="list-style-type: none"> ask questions and actively listen to confirm contents of work orders and outcomes

Unit Mapping Information			
Code and title current version	Code and title previous version	Comments	Equivalence status
FWPCOT2XXX Assess timber for manufacturing potential	FWPCOT2235 Assess timber for manufacturing potential	Application clarified Performance Criteria re-sequenced Foundation Skills and Assessment Requirements updated	Equivalent unit

Links	Companion Volumes, including Implementation Guides, are available at VETNet: https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47
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TITLE	Assessment requirements for FWPCOT3XXX Assess timber for manufacturing potential
Performance Evidence	
<p>An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.</p> <p>There must be evidence that the individual has assessed timber for manufacturing potential for a minimum of one timber frame and one timber truss project, and has:</p> <ul style="list-style-type: none"> • assessed: <ul style="list-style-type: none"> • native timber species • imported timber species • dressed timber • in-the-rough timber • stress and non-stress graded timber • preservative treated timber • used the following equipment during assessments: <ul style="list-style-type: none"> • charts • gauges • picture cards • measuring equipment • completed an assessment report for each timber project identifying timber characteristics and defects and how these would impact on nail plate holding ability. 	
Knowledge Evidence	
<p>An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:</p> <ul style="list-style-type: none"> • guidelines, codes and standards for provisions of relevant engineered strength ratings and timber ability to hold nail plates • workplace policies, procedures and processes relating to timber storage and processing operations: <ul style="list-style-type: none"> • labelling of assesses timber products • lines of communicating and reporting • reporting and recording outcomes • orientating components to make best use of timber characteristics • workplace and environmental requirements for safely disposing of defective timber products • characteristics, properties and limitations of potential timber products for manufacturing • defects of hardwoods and softwoods timber products and how these affect nail plate holding ability: <ul style="list-style-type: none"> • wane/want and collapse • bow, spring and twist • cupping and other distortion • knots and knot holes • borer damage • gum/resin veins and pockets • decay • end splits, internal checks and surface checks • low density material • compression failures and fractures • durability • heart in material • joint strength • range of industry standard timber species and materials and how these affect nail plate holding ability: <ul style="list-style-type: none"> • native timber species • imported timber species • dressed timber • in-the-rough timber • stress and non-stress graded timber • preservative treated timber • laminated veneer coated and treated timber products 	

Knowledge Evidence
<ul style="list-style-type: none"> • beams or laminated beams • range of industry standard lengths, cross sections and grades and how these affect nail plate holding ability • functional and operational features of various types of tools and equipment used for assessing timber products • industry terminology relating to assessing timber for manufacturing potential.

Assessment Conditions
<p>Assessment of skills in this unit of competency must take place under the following conditions:</p> <ul style="list-style-type: none"> • physical conditions: <ul style="list-style-type: none"> • skills must be demonstrated in a timber product workplace or an environment that accurately represents workplace conditions • resources, equipment and materials: <ul style="list-style-type: none"> • appropriate machinery and tools and equipment to assess timber for manufacturing potential • specifications: <ul style="list-style-type: none"> • standards and codes of practice related to assess timber for manufacturing potential • safe work practices and environmental requirements, including the safe disposal of waste material • relationships: <ul style="list-style-type: none"> • personnel to clarify and confirm information with <p>Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.</p>

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