

Modification history

Release	Comments
Release 2	This version released with FWP Forest and Wood Products Training Package Version [4.0] Version created to update range of products requirements in performance evidence and clarify intent of the unit in application.
Release 1	This version replaces equivalent unit FPITMM5201B Assess product feasibility of designs, which was first released with FPI11 Forest and Forest Products Training Package Version 2.2. This is the first release of this unit in the new standards format.

UNIT CODE	FWPTMM5201 Assess product feasibility of designs
Application	<p>This unit of competency describes the skills and knowledge required to systematically analyse, assess and determine the feasibility of <u>timber</u> designs for translation use into <u>a</u> commercially viable production. Work is completed for a forest and wood products factory setting <u>manufacturing facility for prefabricated timber building components and systems</u>.</p> <p>The unit applies to individuals who work as <u>timber</u> designers and production managers for engineered wood products and manufacturing operations, including timber truss and frame. They generally demonstrate <u>autonomy, judgement and defined responsibility in known or changing contexts and within broad but established parameters</u>.</p> <p>No licensing, legislative, regulatory, or certification requirements apply to this unit at the time of publication.</p>
Prerequisite Unit	Nil
Unit Sector	Timber Manufactured Products Timber Merchandising

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. Analyse design objectives	1.1 Identify design purpose and investigate potential market for the product 1.2 Analyse intended production materials and processes
2. Determine design assessment criteria	2.1 Establish criteria for assessment of product material options 2.2 Establish criteria for assessment of product functionality 2.3 Establish criteria for assessment of production process options considering impact of these on production operations 2.4 Establish criteria for assessment of safety and potential liability issues. 2.5 Establish criteria for assessment of costs and marketability 2.6 Determine weighting of scores for each criteria according to importance of issue
3. Apply the assessment criteria	3.1 Select potential and actual products competing in the market place for comparative purposes 3.2 Score and grade design against established criteria and record results 3.3 Score and grade competing products against established criteria and record results 3.4 Record overall assessment results

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
4. Establish feasibility and options	4.1 Analyse assessment results for the design and competing products 4.2 Reject designs which show poor assessment results and provide no potential for variation 4.3 Identify designs which show poor assessment results but provide potential options for variation; <u>and</u> refer to appropriate personnel 4.4 Identify designs which satisfy criteria and indicate potential for success 4.5 Conditionally endorse feasible designs, record conditions and refer to appropriate personnel 4.6 Record assessment outcomes, maintain and process reports in line with organisational procedures

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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
Numeracy	<ul style="list-style-type: none"> determine weighting of scores for particular assessment criteria calculate the total score for the assessment through simple addition
Reading	<ul style="list-style-type: none"> interpret unfamiliar design documents which range in complexity
Writing	<ul style="list-style-type: none"> develop and document qualitative and quantitative assessment criteria clearly and accurately report on assessment outcomes clearly represent rationale for rejecting designs and recommending others
Plan and organise	<ul style="list-style-type: none"> source, collect and organise data to inform design assessment efficiently and logically manage operational logistics for the assessment process
Self-management	<ul style="list-style-type: none"> critically, rationally and logically analyse designs against assessment criteria
Technology	<ul style="list-style-type: none"> use a computer, keyboard and software to prepare assessment documents and reports

Unit Mapping Information			
Code and title current version	Code and title previous version	Comments	Equivalence status
FWPTMM5201 Assess product feasibility of designs	FWPTMM5201 Assess product feasibility of designs	Updated range of products requirements in performance evidence and clarified intent of unit	Equivalent unit

Links	
	Companion Volumes, including Implementation Guides, are available at VETNet: https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47

TITLE	Assessment requirements for FWPTMM5201 Assess product feasibility of designs
Performance Evidence	
<p>An individual demonstrating competency must satisfy all of the elements, performance criteria and foundation skills of this unit. There must be evidence that the individual has:</p> <ul style="list-style-type: none"> • assessed and determined the feasibility of designs for one or more of the following product types: <ul style="list-style-type: none"> • pallets • crates • trellises • stairs • doors • windows • frames • beams • roof trusses • floor systems • wall frames • <u>prefabricated timber building systems</u> • developed a set of assessment criteria and weighted scoring system to include details of: <ul style="list-style-type: none"> • functionality • safety • environmental impacts of product use • environmental impacts of product production • cost effectiveness of production • marketability • competitiveness with similar products on the market • completed a detailed and accurate report for each assessment providing the outcomes. 	
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"> • product feasibility issues, including: <ul style="list-style-type: none"> • environmental impacts of product use and potential to minimize • functionality – ease of use and application together with its relevance for desired purpose • safety – potential to cause danger to someone or something and potential for litigation against the enterprise • environmental impacts of product production and associated cost to the business • cost effectiveness of production • marketability - potential for sale of the product • competitiveness with similar products on the market • sources of information on competitors' current products and price structure • features, at an in-depth level of understanding, of production processes: <ul style="list-style-type: none"> • options for materials • construction methods and sequence • types of tools and equipment used for construction • format, content and use of criteria for assessing feasibility of designs: <ul style="list-style-type: none"> • qualitative and quantitative assessment criteria • scoring systems • weighting of scores according to importance of issue • organisational procedures for: <ul style="list-style-type: none"> • determining design assessment criteria and completing assessments • communication reporting lines • recording and reporting assessment outcomes. 	

Assessment Conditions	
<p>Assessment of skills 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 an environment that accurately represents workplace conditions• resources, equipment and materials:<ul style="list-style-type: none">• computers, keyboards and software programs used to produce assessment documents and reports on assessment outcomes• organisational procedures for design assessment activities• comprehensive information about the design concept• templates for assessment documents and reports on assessment outcomes• relationships:<ul style="list-style-type: none">• relevant personnel for the purposes of communicating information. <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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