



Australian Government

FWPCOT3246 Test heavy structural/engineered products

Release: 1

FWPCOT3246 Test heavy structural/engineered products

Modification History

Release	Comment
1	Replaces equivalent unit FPICOT3246B Test heavy structural/engineered products, which was first released with FPI11 Forest and Forest Products Training Package Version 1. This is the first release of this unit in the new standards format.

Application

This unit of competency describes the outcomes required to test heavy structural and engineered products in line with product quality specifications. The unit includes establishing specifications and test methods, conducting and interpreting tests, and reporting findings.

The unit applies to those working in a forest and wood products factory setting.

No licensing, legislative, regulatory, or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Unit Sector

Sawmilling and Processing

Timber Manufactured Products

Wood Panel Products

Timber Truss and Frame Design and Manufacture

Elements and Performance Criteria

Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the range of conditions.
1. Prepare for testing	1.1 Review and check work order. 1.2 Obtain type and quantity of products to be tested are acquired from the storage location.

	1.3 Select equipment and check for operational effectiveness in line with manufacturer instructions. 1.4 Follow workplace procedures to plan testing.
2. Implement procedures to test heavy structural and engineered products	2.1 Select heavy structural and engineered products for testing in line with 2.2 Conduct test in line with established test methods and quality assurance procedures. 2.3 Identify testing problems are identified and resolved or report these. 2.4 Obtain test results and compare data are made against product specifications.
3. Report outcomes of test	3.1 Identify potential or existing problems that might affect product quality and make recommendations for improvement. 3.2 Record and report outcomes of testing.

Foundation Skills

This section describes those core and employment skills that are essential to performance and are not explicit in the performance criteria.

Numeracy skills to:	measure for testing
Reading skills to:	read quality and product specifications

Range of Conditions

Not Applicable

Unit Mapping Information

FPICOT3246B Test heavy structural/engineered products

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47>

Assessment Requirements for FWPCOT3246 Test heavy structural/engineered products

Modification History

Release	Comment
1	Replaces equivalent unit FPICOT3246B Test heavy structural/engineered products, 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. Assessment requirements now specify the performance and knowledge evidence, as well as assessment conditions for this unit of competency. These sections simplify and replace components used in the previous unit format, including 'Required Skills and Knowledge, Evidence Guide and Range Statement

Performance Evidence

A person demonstrating competency in this unit must satisfy all of the elements, performance criteria and foundation skills of this unit. If a specific volume or frequency is not stated below, then evidence must be provided that the following requirements have been performed on at least one occasion:

- follow organisational and quality procedures for testing heavy structural/engineered products
- safely and efficiently collect data
- accurately interpret test results
- identify problems that may affect test results
- complete accurate records and reports.

Knowledge Evidence

A person competent in this unit must be able to demonstrate knowledge of:

- different types of products that might require testing and methods suitable for conducting those tests
- benchmarks or standards for products being tested
- issues that might affect function or suitability of structural/engineered products
- problems associated with the testing process: test accuracy; sample quality; faulty material; defects
- testing methods for modulus of elasticity, surface hardness, modulus of rupture, sheer strength and compression strength
- types of tools and equipment used for testing heavy structural/engineered products and maintenance [procedures for those tools and equipment]

- criteria for recycling, re-using, repairing or disposing of faulty products
- procedures for recording and reporting workplace information.

Assessment Conditions

The following resources must be made available:

- heavy structural/engineered products for testing
- equipment necessary for testing
- relevant personnel for the purposes of communicating information
- documents, spreadsheets and commonly used proforma documents
- personal protective equipment required for testing heavy structural/engineered products.

Competency is to be assessed in the workplace or a simulated environment that accurately reflects performance in a real workplace setting.

Assessor requirements

Assessors must:

- hold the appropriate assessor competency standards as outlined in regulations; and
- be able to demonstrate vocational competencies at least to the level being assessed; and
- be able to demonstrate how they are continuing to develop their VET knowledge and skills as well as maintaining their industry currency and assessor competence.

Links

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