

<b>Title</b>	<b>Dry wood furnish for composite panels manufacture</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>5</b>

<b>Purpose</b>	People credited with this unit standard are, within the context of composite wood panel manufacture, able to: explain fundamentals of wood furnish drying; operate and maintain a wood furnish dryer; and monitor and control the performance of a wood furnish dryer.
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<b>Classification</b>	Wood Fibre Manufacturing > Composite Wood Panel Manufacturing
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<b>Available grade</b>	Achieved
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**Explanatory notes**

- 1 Range:  
Composite panels may include but are not limited to – medium density fibreboard (MDF), insulating board, particleboard, strandboard, fibre-faced strandboard, triboard;  
evidence of one is required.
- 2 This unit standard is intended for work-based assessment. While all evidence requirements must be met, some range statements within this unit standard are indicative and dependent on enterprise and worksite specific equipments, procedures, and practices.
- 3 The following apply to the performance of all outcomes of this unit standard:
  - a All work practices must meet recognised codes of practice, documented worksite health and safety, and environmental procedures (where these exceed code), for personal, product and worksite health and safety. They must also meet the obligations required under current legislation, including the Health and Safety in Employment Act 1992, the Resource Management Act 1991, and subsequent amendments of these Acts.
  - b All work practices must meet documented worksite quality management procedures. This includes the recording (by electronic or non-electronic means) of activities, events, and decisions.
  - c All communications must be made in accordance with worksite procedures for content, recipient, timing and method.

#### 4 Definitions

*Wood furnish* refers to wood fibre, sawdust, shavings, flakes, and particles; also insulating board mats.

*Worksite policies and procedures* refer to documented policies, and to documented or other directions provided to staff. These must conform to legislation, and include, but are not limited to, ways of managing health and safety, environmental considerations, quality, and production. Examples include standard operating procedures, company health and safety plans, on-site briefings, and supervisor's instructions.

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## Outcomes and evidence requirements

### Outcome 1

Explain fundamentals of wood furnish drying for composite wood panel manufacture in accordance with worksite policies and procedures.

#### Evidence requirements

1.1 The purpose of the dryer is described.

1.2 The operating parameters and capability of dryers are explained.

Range includes but is not limited to – temperatures, throughput speeds.

1.3 Operating components and process controls of dryers are identified and their purpose is explained.

Range may include but not limited to – transport system, heat transfer, temperature controls, venting system, moisture content readers, cool down section, distributed control system.

1.4 Hazards associated with the drying of wood furnish are identified and the role of protective equipment and safety features is explained.

Range hazards may include but are not limited to – toxic gases, steam, heat, confined space, flash points, explosions;  
safety features may include but are not limited to – personnel protective equipment, hold cards, lockouts, stop buttons, guards, fire detection and prevention systems.

1.5 The consequences of non-conformance of drying with worksite operating procedures are described in terms of equipment damage, production loss, and personal hazard.

### Outcome 2

Operate and maintain a wood furnish dryer for composite wood panel manufacture in accordance with worksite policies and procedures.

#### Evidence requirements

- 2.1 The dryer is set up, started up, operated, and shut down.
- 2.2 Setting and adjustment of operating parameters enables production requirements to be achieved.
  - Range operating parameters may include but are not limited to – temperature, throughput; production requirements may include but are not limited to – product quality, production rate, fuel economy.
- 2.3 Operating faults and malfunctions are identified and corrective action is taken.
  - Range may include but not limited to – temperature fluctuations, abnormal moisture content variations, discolouration, blockages.
- 2.4 Equipment faults and malfunctions are identified and corrective action is taken.
  - Range equipment faults and malfunctions may include but are not limited to – electrical, mechanical, hydraulic, pneumatic, instrumentation.
- 2.5 Preventative maintenance and cleaning requirements are explained and applied.

**Outcome 3**

Monitor and control the performance of a wood furnish dryer for composite wood panel manufacture in accordance with worksite policies and procedures.

**Evidence requirements**

- 3.1 Monitoring and interpretation of feedback information, and adjustment of control parameters, enable process requirements, plant performance, and product quality to be maintained.
  - Range control parameters includes but is not limited to – temperature, throughput; plant performance may include but is not limited to – fuel economy, moisture content.
- 3.2 Output product meets the requirements for moisture content and colour.
- 3.3 Production rate is maintained.
- 3.4 Emissions are managed.
- 3.5 Production, maintenance and quality records are completed.

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<b>Planned review date</b>	31 December 2016
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**Status information and last date for assessment for superseded versions**

Process	Version	Date	Last Date for Assessment
Registration	1	25 January 1995	31 December 2011
Review	2	24 November 1995	31 December 2011
Revision	3	12 February 1998	31 December 2011
Review	4	25 March 1999	31 December 2011
Review	5	29 March 2005	31 December 2011
Review	6	24 August 2006	31 December 2012
Review	7	20 October 2011	N/A

**Consent and Moderation Requirements (CMR) reference**

0173

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

**Please note**

Providers must be granted consent to assess against standards (accredited) by NZQA, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be granted consent to assess against standards by NZQA before they can register credits from assessment against unit standards.

Providers and Industry Training Organisations, which have been granted consent and which are assessing against unit standards must engage with the moderation system that applies to those standards.

Requirements for consent to assess and an outline of the moderation system that applies to this standard are outlined in the Consent and Moderation Requirements (CMR). The CMR also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

**Comments on this unit standard**

Please contact the Competenz at [info@competenz.org.nz](mailto:info@competenz.org.nz) if you wish to suggest changes to the content of this unit standard.