

Title	Troubleshoot composite wood panel manufacture		
Level	5	Credits	30

Purpose	People credited with this unit standard are able to analyse a composite wood panel manufacturing process and take corrective actions to optimize the operation, and troubleshoot a composite wood panel quality problem identified in the finished product.
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Classification	Wood Fibre Manufacturing > Composite Wood Panel Manufacturing
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Available grade	Achieved
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Entry information	
Recommended skills and knowledge	Unit 21475, <i>Explain production processes used in composite wood panel manufacture</i> ; and Unit 21476, <i>Explain preparation of materials for composite wood panel manufacture</i> .

Explanatory notes

- 1 All evidence must be demonstrated and assessed in accordance with the reference text: *Technical and Problem Solving Aspects of Wood Panels Production – Composites* published by Competenz and available from Competenz at <http://www.competenz.org.nz>, or Competenz, PO Box 9005, Newmarket, Auckland 1149.
- 2 The following apply to the performance of all outcomes of this unit standard:
 - a All work practices must meet recognised codes of practice, and 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 their subsequent amendments of these Acts.
 - b All work practices must meet documented worksite quality management requirements. 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.

Outcomes and evidence requirements

Outcome 1

Analyse a composite wood panel manufacturing process and take corrective actions to optimize the operation.

Evidence requirements

- 1.1 Analysis of standard operating procedures identifies parts of the process that are not controlled at standard conditions and identifies reasons for the deviations.
- 1.2 Analysis of measured raw material characteristics identifies potential problems for the manufacturing process and remedial actions are taken.
- 1.3 Analysis of equipment condition identifies potential problems for the manufacturing process and remedial actions are taken.
- 1.4 Analysis of in-process product variations identifies potential problems for the manufacturing process and remedial actions are taken.

Outcome 2

Troubleshoot a composite wood panel quality problem identified in the finished product.

Evidence requirements

- 2.1 Equipment failures during the manufacturing process are identified and the relationship to panel quality problems is investigated.
- 2.2 Bottlenecks in the panel manufacturing process that may relate to the panel quality problem are identified and investigated.
- 2.3 The potential for panel quality improvement is identified from the investigation.
- 2.4 Potential solutions that would make the improvement are identified and justified using problem solving techniques.
- 2.5 Recommendations are made on the actions required to confirm the analysis and implement the best solution to the identified quality problem.

Planned review date	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	29 March 2005	31 December 2011
Rollover and Revision	2	23 February 2007	31 December 2012
Review	3	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 if you wish to suggest changes to the content of this unit standard.