

Demonstrate knowledge of timber in the joinery industry

Level 2

Credits 6

Purpose People credited with this unit standard are able to: demonstrate knowledge of indigenous, exotic, and imported timbers; explain timber seasoning; identify and describe insect and fungal attack and preventative measures; and explain timber preservation used in the joinery industry.

Subfield Joinery

Domain Stairs and Other Joinery Trade Skills

Status Registered

Status date 23 January 2009

Date version published 23 January 2009

Planned review date 31 December 2013

Entry information Open.

Accreditation Evaluation of documentation by NZQA and industry.

Standard setting body (SSB) Joinery Industry Training Organisation

Accreditation and Moderation Action Plan (AMAP) reference 0073

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

Special notes

- 1 All workplace practices must comply with current legislation, codes of practice, and documented site safety procedures for personal, product, and worksite safety.
- 2 Legislation and regulations relevant to this unit standard include but are not limited to – Health and Safety in Employment Act 1992; Health and Safety in Employment Regulations 1995.
- 3 New Zealand Standards which apply to this unit standard are NZS 3631:1988 *New Zealand timber grading rules*, and NZS 3640:2003 *Chemical preservation of round and sawn timber*. These are available from <http://www.standards.co.nz>.

Elements and performance criteria

Element 1

Demonstrate knowledge of indigenous, exotic, and imported timbers used in the joinery industry.

Range evidence is required of three uses for each type and grade of timber.

Performance criteria

- 1.1 Indigenous, exotic and imported timbers and their uses are stated in terms of their grades.
- 1.2 Types of timbers for specific uses are described in terms of their characteristics.
- 1.3 Ordering of timber is described in terms of the process.
- 1.4 Correct storage of timber and usable off-cuts is described in terms of workplace practice and legislative requirements.
- 1.5 Common defects in indigenous and exotic timbers are explained in terms of how these affect timber use.

Element 2

Explain timber seasoning used in the joinery industry.

Performance criteria

- 2.1 The terms *fibre saturation point (FSP)*, *equilibrium moisture content (EMC)* and *moisture content* are explained in terms of their use in joinery applications.
- 2.2 Use of a moisture meter is explained in terms of determining the moisture content of timber.
- 2.3 Methods of stacking of timber for seasoning are explained in accordance with workplace practice.
- 2.4 The principles of air, forced air, low and high temperature kiln seasoning of timber are explained in terms of oven drying.

Element 3

Identify and describe insect and fungal attack and preventative measures used in the joinery industry.

Performance criteria

- 3.1 Common forms of insect and fungal attack are identified and described in terms of their characteristics.

- 3.2 Other forms of deterioration to timber are identified and described in terms of their characteristics.
- Range includes but is not limited to – ultra violet light, mechanical abrasion, moisture fluctuations.
- 3.3 Action to be taken following identification of insect and fungal attack is identified and described in accordance with workplace practice.
- 3.4 Safety precautions in the use of pesticides are identified and described in terms of legislative requirements and workplace practice.
- Range includes but is not limited to – gloves, goggles, barrier cream, respirator, overalls.

Element 4

Explain timber preservation used in the joinery industry.

Range evidence is required for two examples of timbers used in the candidate's workplace.

Performance criteria

- 4.1 Types of timber preservatives used in joinery timbers and fitments are explained in terms of species and size.
- 4.2 Treated timber is explained in terms of its use and care.

Please note

Providers must be accredited by NZQA, or an inter-institutional body with delegated authority for quality assurance, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be accredited by NZQA before they can register credits from assessment against unit standards.

Accredited providers and Industry Training Organisations assessing against unit standards must engage with the moderation system that applies to those standards.

Accreditation requirements and an outline of the moderation system that applies to this standard are outlined in the Accreditation and Moderation Action Plan (AMAP). The AMAP 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 Joinery Industry Training Organisation ceo@jito.org.nz if you wish to suggest changes to the content of this unit standard.