

Title	Demonstrate knowledge of fire awareness in a wood manufacturing site		
Level	2	Credits	8

Purpose	People credited with this unit standard are able to identify and explain the nature of fire, fire risks, fire prevention, and the impact of fire; and demonstrate knowledge of: dust as a fire hazard; fire protection systems; and response in the event of a fire emergency, in a wood manufacturing site.
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Classification	Wood Manufacturing - Generic Skills > Wood Manufacturing Foundation Skills
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Available grade	Achieved
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Guidance Information

1 Definitions

Accepted industry practice refers to approved codes of practice and standardised procedures accepted by the wider wood manufacturing industry as examples of best practice.

Workplace procedures refer to documented policies and procedures set by the organisation carrying out the work, and to documented or other directions provided to staff, and applicable to the tasks being carried out. They may include but are not limited to – standard operating procedures, site specific procedures, site safety procedures, equipment operating procedures, quality assurance procedures, product quality specifications, references, approved codes of practice, housekeeping standards, environmental considerations, on-site briefings, supervisor's instructions, and procedures to comply with legislative and local body requirements relevant to the wood manufacturing sector.

2 Assessment information

All activities and evidence must meet workplace procedures and accepted industry practice.

Outcomes and performance criteria

Outcome 1

Identify and explain the nature of fire, fire risks, fire prevention, and the impact of fire in a wood manufacturing site.

Performance criteria

- 1.1 Potential fire risks related to plant and equipment are identified and explained in terms of the reason they are a potential fire risk.
- Range evidence of a minimum of five potential fire risks is required.
- 1.2 Actions taken to manage potential fire risks identified in performance criterion 1.1 are explained.
- 1.3 Reporting requirements for potential fire risks are explained.
- 1.4 External signs that indicate fire within a piece of equipment are identified.
- Range evidence of a minimum of four external signs is required.
- 1.5 The cause and nature of gas, chemical, and oil explosions are explained.
- 1.6 Fire movement within plant and equipment is explained in terms of start point and travel of fire.
- 1.7 Potential effects of fire in a plant are explained in terms of production, employees and the community.

Outcome 2

Demonstrate knowledge of dust as a fire hazard in a wood manufacturing site.

Performance criteria

- 2.1 Areas within a wood manufacturing site where dust is an explosion risk are identified.
- Range evidence of a minimum of five areas is required.
- 2.2 Risks of dust as a potential fire hazard in relation to human error in a wood manufacturing site are explained.
- Range evidence of a minimum of three potential risks from human error is required.
- 2.3 The risks of dust as a potential fire hazard in relation to mechanical failure of a wood manufacturing site and equipment are explained.
- Range evidence of a minimum of three potential risks from mechanical failure is required.
- 2.4 The risks of dust as a potential fire hazard in relation to wood manufacturing operational factors are explained.
- Range evidence of a minimum of two potential risks from operational factors is required.

- 2.5 Actions taken to manage the risks of dust as a potential fire hazard from performance criteria 2.2, 2.3, and 2.4 are explained.

Outcome 3

Demonstrate knowledge of fire protection systems in a wood manufacturing site.

Performance criteria

- 3.1 Fire emergency equipment at candidate's own workplace is identified and maintenance requirements for equipment are explained.

Range equipment includes but is not limited to – extinguishers, hoses, hydrants, sprinklers, fire detection and alarm systems, fire blankets.

- 3.2 Types of active installed fire systems commonly used are described.

Range may include but is not limited to – wet and dry sprinkler and deluges systems, automatic and manual fire alarm systems, total flooding extinguishing agent systems, automatic and manual mechanical ventilation systems, air handling systems, emergency warning and intercommunications systems.

- 3.3 Fire systems and procedures at candidate's own workplace are described in terms of their effect on fire fighting activities, plant, product, evacuation.

Outcome 4

Demonstrate knowledge of response in the event of a fire emergency in a wood manufacturing site.

Performance criteria

- 4.1 Potential reactions of people in a fire emergency situation are described.

- 4.2 Factors that may impede the rate of egress in the event of fire emergency are described.

- 4.3 Measures taken to protect against injury, over exposure to heat and smoke inhalation are explained.

- 4.4 Actions taken at candidate's own workplace in the event of a fire are explained.

Range actions may include but are not limited to – doors, operating control valves, equipment shut down, fixed installations, alarm systems, first aid equipment, portable fire extinguishers, hose reels, smoke ventilation systems.

- 4.5 Responsibilities of the fire and rescue service provider for fire incidents are explained.

Planned review date	31 December 2024
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	21 June 2012	N/A
Review	2	28 May 2020	N/A

Consent and Moderation Requirements (CMR) reference	0013
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

Please contact Competenz qualifications@competenz.org.nz if you wish to suggest changes to the content of this unit standard.