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| **Title** | **Operate a planing system in wood manufacturing** | | |
| **Level** | **3** | **Credits** | **15** |

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| **Purpose** | People credited with this unit standard are able to: manage safety and hazards when operating and monitoring a planing system; demonstrate knowledge of the operation and operating principles of a planing system; prepare to operate a planing system; operate a planing system; and monitor a planing system. |

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| **Classification** | Solid Wood Manufacturing > Timber Machining |

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| **Available grade** | Achieved |

**Guidance Information**

1 Legislation
Health and Safety at Work Act 2015.
Resource Management Act 1991.

2 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.
*Corrective action* refers to actions such as communication to management, communication to on-site technical person, communication to off-site technical support person, cleaning, communication with maintenance staff, recalibration, or changes made to the operating system in accordance with workplace procedures.
*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.

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

## Outcomes and performance criteria

### Outcome 1

Manage safety and hazards when operating and monitoring a planing system.

**Performance criteria**

1.1 Hazards associated with operating and monitoring a planing system are identified and actions to be taken to manage the hazards are described.

Range hazards may include but are not limited to – moving equipment, lifting, noise.

1.2 Safe working practices associated with operating and monitoring a planing system are identified and applied.

Range practices may include but are not limited to – isolation procedures, lock-outs, emergency stops, machine guarding, wearing appropriate safety equipment.

### Outcome 2

Demonstrate knowledge of the operation and operating principles of a planing system.

**Performance criteria**

2.1 The role of the planing system in the wood manufacturing process is described.

2.2 Roles and responsibilities of the planing system operator are described.

2.3 Operating parameters and capability of the planing system are identified.

Range includes but is not limited to – minimum and maximum dimensions of input material, feed speed rates, revs per minute (rpm), motor horsepower/kilowatts.

2.4 Operating components of the planing system are identified.

Range process control and monitoring systems, in-feed and out-feed systems, planer, lubrication systems, hydraulic systems, extraction system.

2.5 Safety procedures for operating a planing system are described.

Range may include but is not limited to – preventing and clearing blockages, preparing to rectify equipment breakdowns, leaving equipment at the end of shift.

**Outcome 3**

Prepare to operate a planing system.

**Performance criteria**

3.1 Start-up checks are completed.

3.2 Product schedules are interpreted, and limitations of the schedules based on size and grade, input material quality, and machinery capabilities are described.

3.3 Input timber checks are completed to ensure timber meets specification and production run expectations, and any corrective actions are taken.

3.4 Supplies of materials to sustain production requirements are prepared.

3.5 Upstream and downstream processing stages are checked to ensure they are ready for production.

**Outcome 4**

Operate a planing system.

**Performance criteria**

4.1 In-feed and out-feed system components are aligned to prevent product degrade.

4.2 The planing system is started, operated, and shut down.

Range start, stop, safety, maintenance.

4.3 The planning system is set and adjusted to achieve the production requirements.

Range production requirements include – product quality, production rates.

4.4 Equipment faults and malfunctions are identified, and any corrective action is taken.

Range equipment faults may include but are not limited to – electrical, mechanical, hydraulic.

**Outcome 5**

Monitor a planing system.

**Performance criteria**

5.1 Output product quality is monitored, and planing system adjustments are made to correct product quality issues identified.

5.2 Supplies of timber to operate the planing system are monitored and maintained.

5.3 Product documentation, production, and maintenance reporting are completed.

5.4 Preventative maintenance and cleaning schedules are monitored, and any corrective action is taken.

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| **Planned review date** | 31 December 2024 |

**Status information and last date for assessment for superseded versions**

| Process | Version | Date | Last Date for Assessment |
|---|---|---|---|
| Registration | 1 | 18 December 2006 | N/A |
| Review | 2 | 25 June 2020 | N/A |

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| **Consent and Moderation Requirements (CMR) reference** | 0013 |

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.