

Title	Paint wood products using conventional spray techniques		
Level	2	Credits	3

Purpose	People credited with this unit standard are able to: demonstrate knowledge of health and safety issues relevant to the safe use of conventional spray-painting techniques; identify parts of conventional spray guns and their function and carry out routine maintenance on equipment used in spray painting; and prepare and apply surface coatings to wood products using conventional spray equipment.
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Classification	Solid Wood Manufacturing > Wood Product Manufacturing Skills
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Available grade	Achieved
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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.
Routine maintenance refers to maintenance that does not require the services of a qualified service technician.
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 be in accordance with workplace procedures and accepted industry practice.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of health and safety issues relevant to the safe use of conventional spray-painting techniques.

Performance criteria

- 1.1 Safe work practices associated with painting wood products using conventional spray-painting techniques are identified, explained, and applied.
- Range safe work practices may include but are not limited to – isolation procedures; emergency stops or cut-off procedures; checking of equipment; the wearing of appropriate safety equipment: eye protection, footwear, breathing or ventilation masks.
- 1.2 The consequences of non-conformance with workplace procedures when spray painting wood products in terms of equipment damage, production loss, and personal hazard are described.

Outcome 2

Identify parts of conventional spray guns and their function and carry out routine maintenance on equipment used in spray painting.

Performance criteria

- 2.1 The parts of conventional spray guns are identified, and their function stated.
- Range includes but is not limited to – gravity feed, suction feed, pressure feed, HVLP (high volume, low pressure), internal mix, external mix, airless.
- 2.2 Routine maintenance is carried out.
- Range may include but is not limited to – compressor unit, pump, ancillary equipment.
- 2.3 Equipment is checked, and any faults identified are either repaired as part of routine maintenance or referred on to relevant personnel.
- Range faults may include but are not limited to – tip leakage, fluttering spray, air-cap leakage, trigger leakage, uneven spray pattern, oil in line.
- 2.4 Causes of pressure drop are identified and eliminated where possible.
- Range may include but is not limited to – hose length, hose leakage, compressor size, height of gun over transformer, gun consumption.

Outcome 3

Prepare and apply surface coatings to wood products using conventional spray equipment.

Performance criteria

- 3.1 Spray equipment suitable to the task is selected and assembled.
- 3.2 Surface coatings are selected, prepared, and applied.
- 3.3 Spraying technique faults are identified, and remedies applied.
- Range may include but is not limited to – spray fog, over-spray, runs, sags, 'orange peel', uneven application.
- 3.4 Spray equipment is dismantled, cleaned, and stored.
- 3.5 Production records are completed.

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	22 March 2002	31 December 2015
Review	2	18 December 2006	31 December 2015
Review	3	20 March 2014	N/A
Review	4	22 October 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.