

40513 Apply coatings by spray systems

Kaupae Level	4
Whiwhinga Credit	35
Whāinga Purpose	<p>This skill standard is for people intending to complete qualifications and credentials in the painting and decorating trades.</p> <p>People with this skill standard have the skills to apply coatings using spray painting systems to the level required of a commercially competent painter and decorator.</p> <p>This skill standard aligns with the New Zealand Certificate in Painting and Decorating (Level 4) with strands in Spray Systems, Wallcoverings and Specialised Coatings [Ref 3568].</p>

Hua o te ako me Paearu aromatawai | Learning outcomes and assessment criteria

Hua o te ako Learning outcomes	Paearu aromatawai Assessment criteria
1. Prepare for coating application using a spray system.	a. Surrounding areas are protected in preparation for spraying in accordance with worksite requirements.
	b. Spray tip and spray machine is selected for the specific task in accordance with the worksite requirements.
	c. Materials are prepared and mixed and coatings are adjusted in accordance with worksite requirements.
2. Apply coatings using spray systems.	a. The spray system is adjusted during application to maintain consistent volume and density of coating coverage in accordance with worksite requirements.
	b. Safe operating procedures are applied when using spray equipment.
	c. Apply problem solving skills to identify any defects in the paint application and take corrective action to achieve spray paint finish.
	d. Minimal wastage and areas of remedial work is achieved through application of coatings.

Hua o te ako Learning outcomes	Paearu aromatawai Assessment criteria
3. Maintain spray system equipment.	a. Spray equipment is dismantled, cleaned and maintained in accordance with worksite requirements.
	b. Spray equipment is tested to achieve the required coating application in accordance with worksite requirements.

Pārongo aromatawai me te taumata paearu | Assessment information and grade criteria

Assessment specifications:

The candidate must be capable of applying and finishing coatings using spray painting systems to the standards expected of a commercially competent painter.

Spray painting systems may include:

- airless
- air-assisted.
- high-volume, low-pressure (HVLP).

Evidence is required of competence different spraying methods and must include competence of application of coatings using spray systems on doors, windows, skirtings, walls, ceilings, roofs and exterior cladding systems.

Commercial competence requires a candidate to be capable of consistently performing the requirements of the skill specification:

- to current regulatory, industry and commercial standards
- within a commercially viable timeframe
- in commercial environments
- without supervision
- in different and unfamiliar contexts.

Ngā momo whiwhinga | Grades available

Achieved

Ihirangi waitohu | Indicative content

Technical skills and knowledge

- Interpreting spray coating instructions.
- Differences between paints and coatings in terms of composition, application and purpose.
- The interrelationship between the coating, the environmental conditions, and the spray system.
- Protection processes for adjoining surfaces to application area.

- Mixing process and paint viscosity.
- Spray painting equipment and accessories, and checks for serviceability and security.
- Spraying techniques for different surfaces, including doors, windows, skirtings, walls, ceilings, roofs, exterior cladding systems.
- Safety instructions, dust and ventilation management, signage and barricade requirements.
- Application to different surfaces and substrates.
- Reinstalling doors.
- Procedures used to clean work area and dispose, reuse or recycle materials.
- Procedures used to clean spray equipment and accessories.
- Environmental requirements and impact in application.

Communication, literacy and numeracy

- Required types and standards of documentation.
- Material calculations.
- Manufacturer's product data specifications.

Rauemi | Resources

Legislation available at <http://legislation.govt.nz>

- Health and Safety at Work Act 2015
- Resource Management Act 1991
- Hazardous Substances and New Organisms Act 1996.

NZ Standards

- AS/NZS 2311:2017 *Guide to the painting of buildings*, available at <http://www.standards.co.nz/>.

Pārongo Whakaū Kounga | Quality assurance information

Ngā rōpū whakatau-paerewa Standard Setting Body	Waihanga Ara Rau Construction and Infrastructure Workforce Development Council
Whakaritenga Rārangi Paetae Aromatawai DASS classification	Planning and Construction > Construction Trades > Painting and Decorating
Ko te tohutoro ki ngā Whakaritenga i te Whakamanatanga me te Whakaōritenga CMR	0048

Hātepe Process	Putanga Version	Rā whakaputa Review Date	Rā whakamutunga mō te aromatawai Last date for assessment
Rēhitatanga Registration	1	24 April 2025	N/A
Kōrero whakakapinga Replacement information	This skill standard replaced unit standard 31112.		
Rā arotake Planned review date	31 December 2029		

Please contact Waihanga Ara Rau Construction and Infrastructure Workforce Development Council at qualifications@waihangaararau.nz if you wish to suggest changes to the content of this skill standard.