
SPRAY PAINTING
**Apply surface coatings by conventional
spray techniques**

level:	3
credit:	12
final date for comment:	January 2007
expiry date:	December 2008
sub-field:	Painting and Decorating
purpose:	People credited with this unit standard are able to: service compressor units; service conventional spray guns; prepare, then apply surface coatings by conventional spray equipment; and recognise and remedy any faults.
entry information:	Open.
accreditation option:	Evaluation of documentation and visit by NZQA, industry and teaching professional in the same field from another provider.
moderation option:	Locally-based external moderation system (providers are to refer to the Accreditation and Moderation Action Plan for requirements).
special notes:	<ol style="list-style-type: none">1 Legislation relevant to this unit standard includes: Health and Safety in Employment Act 1992 (HSE), and its amendments.2 Performance of this unit standard must comply with the Health and Safety in Employment Act 1992 (HSE) and the guidelines of Occupational Safety and Health (OSH) Service of the Department of Labour.

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- 3 *Company requirements* refer to instructions to staff on policy and procedures that are documented in memo or manual form and are relevant to the workplace.

Elements and Performance Criteria

element 1

Service compressor units.

Range: petrol or diesel or electrically driven.

performance criteria

- 1.1 The function of the driving units is described, and servicing is carried out to manufacturer's specifications.
- 1.2 The function of the pump unit is described, and servicing is carried out to manufacturer's specifications.
- 1.3 The function of ancillary equipment is described and servicing is carried out to manufacturer's specifications.
- 1.4 Safe working practices appropriate to the task being undertaken are implemented in accordance with relevant legislation, OSH guidelines and company requirements.

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element 2

Service conventional spray guns.

performance criteria

- 2.1 The parts of conventional spray guns are identified and their function stated.
- Range: gravity, feed, suction feed, pressure feed, HVLP (high volume: low pressure), internal mix, external mix.
- 2.2 Servicing of conventional spray guns, as stipulated by manufacturer's specifications and company procedures, carried out.

element 3

Prepare, then apply surface coatings by conventional spray equipment.

performance criteria

- 3.1 The surface coating is selected and prepared for spraying.
- 3.2 Spray equipment suitable to the task is selected and assembled.
- 3.3 Surface coating is applied without fault.
- 3.4 Safe working practices appropriate to the task being undertaken are implemented in accordance with relevant legislation, OSH guidelines and company requirements.
- 3.5 Spray equipment is dismantled, cleaned, and stored.

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element 4

Recognise and remedy any faults.

performance criteria

- 4.1 Any spraying technique faults are identified and remedies applied.
Range: spray fog, overspray, runs, sags, *orange peel*, uneven application.
- 4.2 Any spray equipment faults are identified and remedial action taken.
Range: tip leakage, fluttering spray, aircap leakage, trigger leakage, uneven spray pattern, oil in line.
- 4.3 Any causes of air pressure drop are identified and eliminated.
Range: hose length, hose internal diameter, compressor size, height of gun over transformer, gun consumption.

Comments on this unit standard

Please contact the New Zealand Painting Contractors Association of Employers Industry Training Organisation paintingito@xtra.co.nz if you wish to suggest changes to the content of this unit standard.

Please Note

Providers must be accredited by the Qualifications Authority or a delegated inter-institutional body before they can register credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be accredited by the Qualifications Authority 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.

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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 providers wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

This unit standard is covered by AMAP 0066 which can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.