



Australian Government

CPCCPD3024 Apply paint by spray

Release: 3

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Modification History

- Release 3 Updated reference to general construction induction training program.
- Release 2 This version first released with CPC Construction, Plumbing and Services Training Package Release 6.4.
Correction to Training Package title in the Modification History from CPC Property Services to CPC Construction, Plumbing and Services Training Package.
- Release 1 This version first released with CPC Property Services Training Package Release 5.0.
Supersedes and is equivalent to CPCCPD3024A Apply paint by spray. Updated to meet the Standards for Training Packages 2012.

Application

This unit of competency specifies the skills and knowledge required to apply paint by spray onto different surfaces to form a protective paint finish.

The unit includes preparation of materials and application area, setting up and testing of the spray equipment, application of paint and completion of clean-up activities.

A person who has achieved this unit of competency would be expected to take responsibility for organising and completing these tasks with a high degree of self-direction.

Completion of the general construction induction training program specified by the model Code of Practice for Construction Work is required for any person who is to carry out construction work. Achievement of *CPCWHS1001 Prepare to work safely in the construction industry* meets this requirement.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

CPCCWHS200 Apply WHS requirements, policies and procedures in the construction
1 industry

Unit Sector

Painting and Decorating

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe what needs to be done to demonstrate achievement of the element.

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|---|---|
| 1 Plan and prepare. | 1.1 Review work instructions to apply paint by spray. |
| | 1.2 Plan all work to meet relevant requirements of work health and safety (WHS), Commonwealth and state or territory legislation, environmental plans and obligations, manufacturers' specifications, and workplace requirements. |
| | 1.3 Select and fit personal protective equipment (PPE) as required for each task. |
| | 1.4 Inspect work site, assess hazards and apply risk controls, including required signage and barricades. |
| | 1.5 Select tools and equipment, check for serviceability and report any faults. |
| 2 Prepare materials and application area. | 2.1 Check that materials and substrate surfaces are prepared in accordance with manufacturers' recommendations and relevant Australian Standards. |
| | 2.2 Protect surrounding surfaces with drop sheets, masking or removal of objects. |
| | 2.3 Check that where doors, windows and associated furniture are removed they are safely stacked, stored and protected. |
| | 2.4 Check work site to ensure provision of adequate ventilation and implementation of precautions to prevent fire and explosion. |
| | 2.5 Implement measures to ensure application area remains free of dust and foreign matter. |
| | 2.6 Set up area to suit selected spray system. |
| | 2.7 Mix and adjust viscosity of paint to allow for to allow for |

application process for spray paint finishing materials.

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|---|----------------------------------|-----|--|
| 3 | Set up and test spray equipment. | 3.1 | Set up and test spray system equipment, accessories and lines to manufacturers' specifications. |
| | | 3.2 | Check fittings are secure. |
| | | 3.3 | Test safety devices are performing to manufacturers' specifications and report defects. |
| | | | |
| 4 | Apply paint using spray system. | 4.1 | Operate spray equipment following standard operating procedures and manufacturers' recommendations. |
| | | 4.2 | Identify defects in coating and take corrective action to achieve required finish. |
| | | 4.3 | Apply paint using application technique to achieve an even finish with required opacity and sheen levels and to specification. |
| | | | |
| 5 | Clean up. | 5.1 | Clean up, meeting all legislative and workplace requirements for safety, waste disposal, materials handling and protection of the environment. |
| | | 5.2 | Clear work area, reuse or recycle materials and place waste and unwanted materials into job waste bins or rubbish stockpile. |
| | | 5.3 | Check and maintain spray system, tools and equipment and clean with appropriate solvents. |
| | | 5.4 | Dispose of paint waste and of water and solvents used in cleaning tools and equipment in an environmentally sustainable manner. |
| | | 5.5 | Store spray system, tools, equipment and sealed unused materials to avoid spontaneous ignition. |

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Unit Mapping Information

Supersedes and equivalent to CPCCPD3024A Apply paint by spray.

Links

Companion volumes to this training package are available at the VETNet website -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad>

Assessment Requirements for CPCCPD3024 Apply paint by spray

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Performance Evidence

To demonstrate competency, a candidate must meet the performance criteria of this unit by:

- applying paint by spray using one alkyd or solvent paint system to a surface of at least six square metres
- airless application and back rolling of acrylic paint system to a surface of at least 50 square metres of:
 - plaster surface
 - masonry surface
 - timber surface
- applying paint by spray using high volume, low pressure (HVLP) spray, or air assisted airless spray, to a surface of at least six square metres
- applying paint by spray to both faces of a standard size door.

The above work must include applying paint by spray to walls, ceilings, architraves and skirting.

All work must be to specification and be performed to the standard required in the workplace and must meet the requirements of work health and safety (WHS), Commonwealth and state or territory legislation, manufacturers' specifications, and environmental plans and obligations.

Knowledge Evidence

To be competent in this unit, a candidate must demonstrate knowledge of:

- technical data sheets and safety data sheets (SDS)

- safety requirements relevant to applying paint by spray
- environmental requirements relevant to applying paint by spray
- workplace and equipment safety requirements including respiratory protection
- paint types, their uses and limitations for spray painting:
 - solvent-based (alkyd, urethane, urethane/alkyd, urethane oil or modified alkyd resins)
 - two pack including isocyanate
 - water based
 - water repellents for timber
 - low odour and low-VOC (Volatile Organic Compound) paint
 - alternative and natural paint and paint materials
- painting and decorating terminology relevant to applying paint by spray
- preparatory materials relevant to spray operations
- processes for the calculation of material requirements relevant to applying paint by spray
- quality requirements relevant to applying paint by spray
- rules, regulations, Australian Standards and codes of practice of spray painting
- solid waste and paint sludge disposal techniques and relevant legislation, including Environmental Protection Authority (EPA) and local council regulations
- injection injury
- corrective actions including back rolling
- types, characteristics, uses and limitations of tools and equipment:
 - brushes
 - drop sheets
 - masking equipment
 - respirators
 - sanders
 - vacuum cleaners
 - spray equipment, accessories and lines:
 - hoses
 - regulators
 - spray guns
 - spray tips and filters
 - spray systems:
 - air-assisted spray units
 - airless spray units
 - diaphragm and piston airless spray unit (electrical, pneumatic and petrol)
 - high volume, low pressure (HVLPP) spray applications
 - electrostatic spray systems
 - spray tips, filters and fittings
- techniques for the application of paint by spray
- compatibility of surface coating to substrates.

Assessment Conditions

Assessors must meet the requirements for assessors contained in the Standards for Registered Training Organisations.

This unit must be assessed:

- in the workplace or a close simulation of the workplace environment, provided that simulated or project-based assessment techniques replicate construction workplace conditions, materials, activities, responsibilities and procedures.
- using realistic tasks or simulated tasks, relevant specifications and work instructions, standard work practices, safety requirements and environmental constraints.

Links

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<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad>