



Australian Government

Assessment Requirements for MSFFF3011 Set up, operate and maintain mechanical coating systems

Release: 1

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Modification History

Release 1. Changes to code, application, elements, performance criteria, assessment requirements. Foundation skills added. Range of conditions removed. Assessment requirements changed.

Performance Evidence

There must be evidence the candidate has completed all the tasks outlined in the elements and performance criteria of this unit, and demonstrated the ability to:

- select and apply surface coatings, including the adjustment of spray equipment, to achieve required coating using a minimum of 2 of the following mechanical systems:
 - curtain coating
 - UV coating
 - tumbling
 - dipping
 - electrostatic powder coating
 - automatic (robotic) spray equipment.
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Knowledge Evidence

There must be evidence the candidate has knowledge of:

- mechanical spray system equipment and processes
- characteristics of coatings and base materials, including:
 - toxicity
 - reactivity
 - flammability
 - required viscosity
 - recoatability
- effects of fumes and heat and other radiation on surface coatings
- methods to prevent contamination of surfaces during and after surface coating
- workflow for spraying operations
- typical tools and equipment required when setting up, operating and maintaining mechanical coating systems, including:
 - computerised spray system
 - electrostatic spray gun
 - baking oven

- barrel tumbler
- spray booth
- liquid containers
- air compressor and hoses
- screwdrivers
- shifting spanner and spanners
- ford cup
- typical materials used when setting up, operating and maintaining mechanical coating systems, including:
 - stains
 - lacquers
 - wax
 - oil
 - two-pack polyurethane
 - three-pack polyester
 - enamels
 - acrylics
- sources of workplace documentation, including:
 - workplace procedures relating to the use of tools and equipment
 - work instructions
 - workplace procedures relating to reporting and communication
 - manufacturer specifications and operational procedures
- work health and safety requirements, including personal protective equipment (PPE).
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Assessment Conditions

Skills must have been demonstrated in the workplace or in a simulated environment that reflects workplace conditions and contingencies. The following conditions must be met for this unit:

- use of suitable facilities, equipment and resources, including:
 - work orders
 - mechanical spray systems and equipment, spray booth, coatings and cleaning products required for performance evidence
 - PPE
 - items to be sprayed
 - workplace procedures, manufacturing specifications, codes, standards, manuals, and reference materials.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

Links

Companion Volume implementation guides are found in VETNet – -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0601ab95-583a-4e93-b2d4-cfb27b03ed73>