



Australian Government

**Assessment Requirements for MSFFF3018  
Set up, operate and maintain computer  
numerically controlled (CNC) coating  
systems**

# **Assessment Requirements for MSFFF3018 Set up, operate and maintain computer numerically controlled (CNC) coating systems**

## **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 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 system controls, to achieve required coating using at least 2 of the following types of computer numerically controlled (CNC) systems:
  - curtain coating
  - UV coating
  - tumbling
  - dipping
  - electrostatic powder coating tasks.
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## **Knowledge Evidence**

There must be evidence the candidate has knowledge of:

- CNC coating system equipment, processes and procedures
- characteristics of coatings and base materials in terms of toxicity, reactivity, flammability, required viscosity and recoatability
- effects of fumes, heat and other radiations on surface coatings
- methods to prevent contamination of surfaces during and after surface coating
- workflow in relation to spraying operations
- function of tools and equipment used in setting up, operating and maintaining computer numerically controlled (CNC) systems, including at least 6 of the following:
  - computerised spray system
  - electrostatic spray guns
  - baking ovens
  - barrel tumblers
  - spray booths
  - liquid containers
  - compressor and hoses
  - screwdrivers

- shifting spanner and spanners
- ford cup
- typical materials used in setting up, operating and maintaining computer numerically controlled (CNC) coating systems, including:
  - stains
  - lacquers
  - wax
  - oil
  - two-pack polyurethane
  - three-pack polyester
  - enamels
  - acrylics
  - powder coating
- sources of workplace documentation, including:
  - work instructions
  - workplace procedures relating to reporting and communication
  - manufacturer specifications and operational procedures
- work health and safety requirements, including the use of 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
  - items to be coated
  - CNC coating systems and equipment, including spray booth, required for performance evidence
  - coatings and cleaning products
  - PPE
  - 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>