



Australian Government

Assessment Requirements for MEM08015 Apply protective coatings (advanced)

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to MEM08015B Apply protective coatings (advanced)

Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy the requirements of the elements and performance criteria on at least two (2) occasions and include:

- following work instructions, standard operating procedures (SOPs) and safe work practices
- identifying and interpreting specifications, supplier information, product details, Australian and international standards, regulatory, legislative requirements and other applicable reference documents in applying protective coatings
- determining the correct coating method and application techniques for job
- preparing the surface to be coated, masking off, as required
- setting up, maintaining and using personal protective equipment (PPE) suitable for the coating work to be undertaken
- selecting, setting up and using coating application equipment and material
- adjusting coating material to provide the required finished surface coat, monitoring during application and testing that it meets specifications
- inspecting coated surface for required finish and recording test results
- cleaning, maintaining and storing coating equipment in accordance with procedures
- calculating the costs of coating work accurately.

Knowledge Evidence

Evidence required to demonstrate the required knowledge for this unit must be relevant to and satisfy the requirements of the elements and performance criteria and include knowledge of:

- safe work practices and procedures and use of personal protective equipment (PPE)
- specifications applying to protective coating work and the appropriate coating system and material required to meet job specification
- features of the various types of coating materials, including drying and curing requirements
- selection procedures for coating material and the appropriate coating process and equipment required for surface coating to meet job specification
- application features of the various types of coating materials and methods
- selection procedures for coating process and equipment, including conventional, airless and plural component

- awareness of other site factors that could be affected by the coating work
- how to recognise deviation from specified surface finish/condition and standard workplace procedures for identifying unsuitable work items
- method of locating areas to be protected from coating process and masked
- areas subject to overspray and requiring protection
- operation of protective coating plant and equipment using SOPs
- procedures for routine maintenance of plant and equipment
- requirements for completion and processing maintenance reports
- protective coating inspection procedure to identify unsuitable work pieces in consideration of job specifications
- procedures for determining wet film thickness of a coating from the specified dry film thickness using calculations and a specified formulation
- procedures for thinning coating materials for use in applying the specified film thickness coating to a substrate
- procedures to apply protective coatings to comply with an established standard
- procedures for controlling coating application and curing techniques
- SOP for disassembly, cleaning and checking of protective coating equipment
- procedures for storage and protection of equipment
- procedures and other relevant standards for assessing the profile of the surface finish
- features and use of dry film thickness testing instruments
- procedures for surface inspection, including the extent and detail of inspection, as required, and requirements for completion and processing of inspection reports
- standard methods and procedures for determining surface area of various shapes of materials
- recording and reporting procedures for defective equipment components
- calculating, recording and reporting costs procedures.

Assessment Conditions

- Assessors must:
 - have vocational competency in applying protective coatings (advanced) at least to the level being assessed with relevant industry knowledge and experience
 - satisfy the assessor requirements in the *Standards for Registered Training Organisations 2015* or its replacement and comply with the *National Vocational Education and Training Regulator Act 2011*, its replacement or equivalent legislation covering VET regulation in a non-referring state/territory as the case requires
- Where possible assessment must occur in operational workplace situations. Where this is not possible or where personal safety or environmental damage are limiting factors, assessment must occur in a sufficiently rigorous simulated environment that reflects realistic operational workplace conditions. This must cover all aspects of workplace performance, including environment, task skills, task management skills, contingency management skills and job role environment skills
- Conditions for assessment must include access to all tools, equipment, materials and documentation required, including relevant workplace procedures, product and manufacturing specifications

- Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b7050d37-5fd0-4740-8f7d-3b7a49c10bb2>