



Australian Government

PMBPROD249E Apply liquid surface coatings

Release: 1

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Modification History

Release 1. Unit code changed. Application changed. Elements and Performance Criteria changed. Range of Conditions removed. Assessment Requirements changed. Supersedes and is equivalent to PMBPROD249 Apply liquid surface coatings.

Application

This unit covers the skills and knowledge required to apply liquid surface coatings to products by hand or immersion or using a spray gun.

This unit applies to an individual working alone or as part of a team.

The unit principally refers to operators who are required to select and prepare materials and equipment, apply surface coatings, check conformity to specifications and recognise and respond to process control variances.

No licensing or certification requirements exist at the time of publication. Relevant legislation, industry standards and codes of practice within Australia must be applied.

Pre-requisite Unit

Nil

Competency Field

Production

Elements and Performance Criteria

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Check work requirements	1.1 Identify requirements from job specifications 1.2 Perform housekeeping tasks to prepare for work to be undertaken 1.3 Perform pre-operational checks including checking for and acting on hazards
2. Start up surface coating equipment	2.1 Conduct pre-startup checks according to equipment specifications 2.2 Start up coating equipment according to equipment instructions
3. Apply surface coating	3.1 Check process is operating according to specifications and work requirements

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
	3.2 Ensure output meets job specifications and quality standards 3.3 Monitor and maintain supply of materials to support process 3.4 Accurately complete logs and records as required 3.5 Apply waste management strategies to collect and segregate scrap, trim and other materials according to workplace procedures 3.6 Clean equipment and work area according to equipment specifications and workplace procedures 3.7 Pause or stop equipment in both normal and abnormal circumstances according to workplace procedures
4. Respond to process control variances	4.1 Recognise and log process control variances and their causes 4.2 Determine, prioritise and implement remedial and preventative actions based on identified issues and causes 4.3 Accurately maintain records and logbooks

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance.

- Numeracy skills to interpret technical information.
- Reading skills to interpret specifications and workplace procedures.
- Writing and oral communication skills to record and report on surface coating operations.

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

Unit Mapping Information

Supersedes and is equivalent to PMBPROD249 Apply liquid surface coatings.

Links

Companion Volume implementation guides are found in VETNet –

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=932aacef-7947-4c80-acc6-593719fe4090>

Assessment Requirements for PMBPROD249E Apply liquid surface coatings

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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:

- apply liquid surface coatings at least once to meet job specifications.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- common types of coatings, their differences and range of applications
- methods of application of common coatings
- the criteria for overall process/equipment readiness for the process or equipment being used
- common types of equipment used in the application of liquid coatings, including:
 - coating equipment
 - brushes
 - spray guns
 - film coaters
 - immersion equipment
- the function and principles of operation of spray gun equipment
- processing behaviour of polymers and the role of additives
- production workflow sequences and materials demand
- key variables that may affect product quality and production output, including:
 - spray patterns
 - materials consistency
 - finished colour
 - surface finish
 - product integrity and general conformance to specifications
 - coating viscosity
 - solvent/thinner blend ratios
- the potential effects of variations in raw materials, conditions and equipment in relation to quality of product

- reasons for checking conditions and taking action when they are outside of normal range of process variability
- typical process and product problems, including early warning signs, possible causes and corrective actions
- organisational procedures relevant to the work environment or job role
- hazards that may arise in the job or work environment, and:
 - their possible causes
 - potential consequences
 - appropriate risk controls.

Assessment Conditions

Skills must have been demonstrated in the workplace or in a simulated environment that reflects workplace conditions and contingencies.

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

Links

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