



Australian Government

PMBPROD247E Create composite laminates using hand lay-up techniques

Release: 1

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Modification History

Release 1. Unit code and title changed. Application changed. Elements and Performance Criteria changed. Range of Conditions removed. Assessment Requirements changed. Supersedes and is equivalent to PMBPROD247 Hand lay up composites.

Application

This unit describes the applied skills and knowledge required to create polymer-matrix laminates using manual hand lay-up techniques.

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

The unit principally refers to the introductory level of competency required for the application of composites technology.

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 – Composites

Elements and Performance Criteria

Elements Elements describe the essential outcomes.	Performance Criteria 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. Set up mould and materials	2.1 Set up mould ready for production 2.2 Ensure materials are available in form and quantities required 2.3 Ensure safety equipment is available and fit for use

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
3. Lay-up composites by hand	3.1 Apply materials to mould according to specifications 3.2 Ensure output meets job specifications and quality standards 3.3 Work efficiently to minimise scrap and trim 3.4 Clean equipment and work area according to equipment specifications and 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 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 composite laminate 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 PMBPROD247 Hand lay up composites.

Links

Companion Volume implementation guides are found in VETNet – -

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