



Australian Government

PMBPROD325E Lay on tyre retreads

Release: 1

PMBPROD325E Lay on tyre retreads

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 PMBPROD325 Lay on tyre retreads.

Application

This unit covers the skills and knowledge required to lay retread onto prepared tyre casings. It applies to 'green' retread that requires mould curing and pre-cured retread.

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

The unit principally refers to the practical, theoretical and technical knowledge and well-developed skills required in situations that require some discretion and judgement.

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 – Tyres

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. Plan work requirements	1.1 Identify materials required from job specifications 1.2 Identify equipment and processes required for production and upstream and downstream operations from job specifications 1.3 Perform pre-operational checks including checking for and controlling hazards 1.4 Identify checks and testing processes required for materials, quality, production management and equipment to meet job requirements 1.5 Perform housekeeping tasks in preparation for work to be undertaken

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
	1.6 Identify waste management strategies to collect excess, discarded or nonconforming materials to be disposed of, recycled or reprocessed according to workplace procedures
2. Perform pre-production tasks	2.1 Set production process according to equipment and workplace specifications, and adjust process to optimise output 2.2 Verify materials are correct against job specifications 2.3 Set up date, batch and materials markings according to workplace procedures 2.4 Undertake other pre-startup checks according to equipment specifications and workplace procedures
3. Operate and make adjustments to the retread laying process	3.1 Start up and operate retread laying process, and make adjustments to settings to meet job specifications 3.2 Ensure process is operating according to equipment specifications and workplace procedures 3.3 Follow checking and testing processes to assess if output meets job specifications and quality standards, and apply strategies for managing non-conforming outputs 3.4 Maintain continuity of process to support production 3.5 Accurately complete logs and records 3.6 Work efficiently to minimise scrap and trim according to workplace procedures 3.7 Clean work area, and clean, adjust and lubricate equipment according to equipment specifications and workplace procedures 3.8 Pause or stop process in normal and abnormal circumstances according to workplace procedures
4. Shut down equipment to procedures	4.1 Determine type of shutdown and the process to be followed from equipment instructions and workplace procedures 4.2 Shut down equipment according to equipment instructions and workplace procedures 4.3 Complete equipment clean-up and post-production adjustments according to equipment instructions 4.4 Put guards, locks and notices in place to prevent inadvertent startup 4.5 Accurately complete workplace documentation 4.6 Clean and clear work area after the shutdown in readiness for the

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
	next startup
5. Anticipate and solve process control variances	5.1 Recognise existing or potential process control variances and their causes 5.2 Determine, prioritise and implement remedial and preventative actions based on identified issues and causes 5.3 Monitor process control variances and corrective actions taken until resolved 5.4 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 and equipment readings.
- Reading skills to interpret specifications and workplace procedures.
- Writing and oral communication skills to record and report on tyre retreading 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 PMBPROD325 Lay on tyre retreads.

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 PMBPROD325E Lay on tyre retreads

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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 of competency, and demonstrated the ability to:

- lay on tyre retreads at least once to meet job specifications.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- the functions and operating principles of retread laying processes, equipment, machine components and ancillary equipment
- retread laying cycle, process steps and changes to materials at various stages of production for:
 - pre-cured retread
 - green retread
- impact of variations in machine process conditions and materials on product quality and production output
- the criteria for overall process/equipment readiness for the process or equipment being used typical quality standards at each stage of production
- common adjustments in process variables and their impact on product quality and production output
- impact of variations in raw materials and equipment operation in relation to final product
- key variables that may affect product quality and production output, including:
 - speed
 - pressure
 - colour
 - tyre components
 - tread alignment
 - product integrity and general conformance to specification
- impact of tyre size, faulty tyres, speed rating, finished and second-hand tyres, and aspect ratio markings of tyres on product quality and production output
- typical and atypical process and product problems, including early warning signs, possible causes and corrective actions:

- faulty casings
- incorrect tread selection
- incorrect tyre inflation pressure
- equipment malfunction
- poorly aligned tread
- tread that is too long or short
- incorrect tread profile
- organisational procedures relevant to the work environment and job role, including procedures for the emergency shutdown of equipment
- 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.

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