



Australian Government

PMBPROD341E Finish heavy off-the-road tyre repairs

Release: 1

PMBPROD341E Finish heavy off-the-road tyre repairs

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 PMBPROD341 Finish heavy off-the-road tyre repairs.

Application

This unit covers the skills and knowledge required to finish repairs made to heavy off-the-road tyres. It applies to tyres defined by AS 4457.2-2008 Earth-moving machinery - Off-the-road wheels, rims and tyres - Maintenance and repair - Tyres (or its replacement) or similar tyres.

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. Prepare for job	1.1 Move tyre into suitable position for finishing 1.2 Secure tyre ready for finishing 1.3 Inspect tyre to ensure it meets required standards 1.4 Select and prepare required equipment according to equipment specifications 1.5 Check and wear required personal protective equipment (PPE)
2. Finish repaired tyre	2.1 Cut and buff surface to meet required standard

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
	2.2 Reshape tread according to job requirements 2.3 Brand tyre to meet required standard 2.4 Finish surface to meet required standard 2.5 Complete final inspection of tyre and repairs to ensure job has been done to required standard 2.6 Apply sealing compound around patch area
3. Complete job	3.1 Move tyre to dispatch area according to workplace procedures 3.2 Accurately complete required paperwork 3.3 Apply waste management strategies to collect and segregate scrap, trim and other materials according to workplace procedures
4. Anticipate and solve process control variances	4.1 Recognise existing or potential process control variances and their causes 4.2 Determine, prioritise and implement remedial and preventative actions based on identified issues and causes 4.3 Monitor process control variances and corrective actions taken until resolved 4.4 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.
- Reading skills to interpret specifications and workplace procedures.
- Writing and oral communication skills to record and report on tyre repair 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 PMBPROD341 Finish heavy off-the-road tyre repairs.

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 PMBPROD341E Finish heavy off-the-road tyre repairs

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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:

- finish heavy off-the-road tyre repairs at least once.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- the functions and operating principles of preparation and inspection equipment, machine components and ancillary equipment
- heavy off-the-road tyre construction
- radial and bias ply construction
- common injuries to heavy off-the-road tyres and their indicators
- common hidden injuries and their indicators, including:
 - cuts
 - oxidation
 - separations
- methods for repairing injuries to tyres, including:
 - cuts, abrasion, splits, cracks and crazing
 - separations within the structure
 - deformities both surface and internal
 - penetrations into and through the casing/carcass
- methods for repairing injuries to tyres in:
 - tread or crown, including steel components
 - shoulder
 - sidewall
 - bead area
 - liner
- types of injuries that do not need repairing, injuries that are repairable and injuries that either individually or in the sum should not be repaired
- methods of identifying lug/position
- impact of significantly faulty tyres falsely passing inspection

- production workflow sequences
- typical quality standards required at each stage of production
- key variables that may affect product quality and inspection output
- typical and atypical process and product problems, including early warning signs, possible causes and corrective actions
- organisational procedures relevant to the work environment or 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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