



Australian Government

PMBPROD336E Inspect heavy off-the-road tyres

Release: 1

PMBPROD336E Inspect heavy off-the-road tyres

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 PMBPROD336 Inspect heavy off-the-road tyres.

Application

This unit covers the skills and knowledge required to inspect 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 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 inspection	1.1 Complete initial documentation for tyre inspection process 1.2 Raise all relevant paperwork required by workplace procedures 1.3 Clean tyre ready for inspection 1.4 Position tyre securely for inspection
2. Inspect tyre	2.1 Identify injuries to tyre both internally and externally 2.2 Investigate injuries for extent and nature 2.3 Identify tyre injuries that are repairable and those that are irreparable

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
	2.4 Accurately mark tyres to indicate areas requiring repair 2.5 Categorise injuries according to standards 2.6 Determine overall reparability of tyre against criteria
3. Finalise inspection	3.1 Accurately complete internal paperwork 3.2 Prepare customer quotation as required according to workplace procedures 3.3 Communicate with customer on inspection results and recommend planned actions based on those results 3.4 Make arrangements for tyre to be repaired, scrapped or returned based on agreed actions
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 inspection 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 PMBPROD336 Inspect heavy off-the-road tyres.

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 PMBPROD336E Inspect heavy off-the-road tyres

Modification History

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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:

- distinguish between:
 - tyre injuries that do not need repair and should be returned to the customer to be used as is
 - tyre injuries that should be repaired
 - tyre injuries that are beyond repair and require the tyre to be scrapped
- recognise different injury types, including:
 - cuts, abrasion, splits, cracks and crazing
 - separations within the structure
 - deformities both on the surface and internal
 - penetrations into and through the casing/carcass
 - hidden injuries.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- the functions and operating principles of inspection equipment, machine components and ancillary equipment
- types and application of inspection methods/processes
- heavy off-the-road tyre construction
- radial and bias ply construction
- typical quality standards required
- common injuries to heavy off-the-road tyres and their indicators
- common hidden injuries and their indicators, including:
 - cuts
 - oxidation
 - separations
- criteria for assessing extent and nature of tyre injuries
- criteria for assessing overall repairability of tyres
- methods of identifying lug/position

- impact of significantly faulty tyres falsely passing inspection
- key variables that may affect inspection quality
- 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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