



Australian Government

PMBPROD340E Cure heavy off-the-road tyre repairs

Release: 1

PMBPROD340E Cure 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 PMBPROD340 Cure heavy off-the-road tyre repairs.

Application

This unit covers the skills and knowledge required to operate pressure curing systems to cure 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 Select required curing equipment from job specifications 1.2 Move tyre into suitable position for curing 1.3 Secure tyre ready for curing 1.4 Determine cure conditions required from injury dimensions, rubber compounds and equipment selected 1.5 Select curing equipment components to suit repairs to be cured 1.6 Check and wear required personal protective equipment (PPE)

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
2. Set up pressure curing system	2.1 Correctly place and secure packing required for job 2.2 Position curing system components and secure ready for curing process 2.3 Apply pressure appropriate to system being used 2.4 Check curing system is ready for curing process according to equipment specifications
3. Cure repair to procedures	3.1 Set temperature required for curing according to equipment and job specifications 3.2 Monitor heat and pressure over whole curing cycle and make any required adjustments to ensure successful curing
4. Complete repair	4.1 Check heat and pressure cure cycle has completed according to equipment specifications 4.2 Remove curing system according to workplace procedures 4.3 Remove packing and any other materials used according to workplace procedures 4.4 Inspect repair to ensure it meets standard required 4.5 Accurately complete required paperwork
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.
- Reading skills to interpret specifications and workplace procedures.
- Writing and oral communication skills to record and report on tyre curing 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 PMBPROD340 Cure 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 PMBPROD340E Cure 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:

- cure heavy off-the-road tyre repairs at least once to meet job specifications.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- the functions and operating principles of pressure curing equipment, machine components and ancillary equipment
- heavy off-the-road tyre construction
- radial and bias ply construction
- common methods for curing tyre repairs using pressure curing systems and the process steps
- types and application of packing
- methods of identifying lug/position
- production workflow sequences
- typical quality standards required at each stage of the process
- key variables that may affect product quality or inspection result
- 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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