



Australian Government

PMBPROD340 Cure heavy off-the-road tyre repairs

Release: 1

PMBPROD340 Cure heavy off-the-road tyre repairs

Modification History

Release 1. Supersedes and is equivalent to PMBPROD340A Cure heavy off-the-road tyre repairs

Application

This unit of competency 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 of competency applies to operators who are required to select and prepare tools/equipment and materials, determine curing conditions, cure the repair and solve problems within area of responsibility.

This unit of competency applies to an operator demonstrating theoretical and technical knowledge and well developed skills in situations that require some discretion and judgement. The operator may work alone or as a member of a team or group and will work in liaison with other shift team members, team leader and supervisor, as appropriate.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Competency Field

Production

Unit Sector

Not applicable

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

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|---|--|-----|--|
| 1 | Prepare for job | 1.1 | Select required curing equipment |
| | | 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) |
| | | | |
| 2 | Set up pressure curing system to procedures | 2.1 | Place and secure packing |
| | | 2.2 | Position curing system components and secure |
| | | 2.3 | Apply pressure appropriate to the system being used |
| | | 2.4 | Check curing system is ready for the curing process |
| | | | |
| 3 | Cure repair to procedures | 3.1 | Set temperature required for curing |
| | | 3.2 | Monitor heat and pressure over the whole curing cycle and make adjustments if required |
| | | | |
| 4 | Complete repair | 4.1 | Check heat and pressure cure cycle has completed |
| | | 4.2 | Remove curing system |
| | | 4.3 | Remove packing and any other ancillary materials used |
| | | 4.4 | Inspect repair to ensure that it meets the standard |
| | | 4.5 | Complete any required paperwork |

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| 5 | Anticipate and solve problems | 5.1 | Recognise a problem or a potential problem |
| | | 5.2 | Determine problems needing priority action |
| | | 5.3 | Refer problems outside area of responsibility to appropriate person, with possible causes |
| | | 5.4 | Seek information and assistance as required to solve problems |
| | | 5.5 | Solve problems within area of responsibility |
| | | 5.6 | Follow through items initiated until final resolution has occurred |

Foundation Skills

This section describes those required skills (language, literacy and numeracy) that are essential to performance.

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

This field allows for different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included.

Regulatory framework The latest version of all legislation, regulations, industry codes of practice and Australian/international standards, or the version specified by the local regulatory authority, must be used.

Applicable legislation, regulations, standards and codes of practice include:

- health, safety and environmental (HSE) legislation, regulations and codes of practice relevant to the workplace, manual handling and hazardous materials
- AS 4457.2-2008 Earth-moving machinery - Off-the-road wheels, rims and tyres - Maintenance and repair - Tyres or its replacement
- other Australian/international standards relevant to the materials being used and products being made
- any relevant licence and certification requirements.

All operations to which this unit applies are subject to stringent HSE requirements, which may be imposed through state/territory or federal legislation, and these must not be compromised at any time. Where there is an apparent conflict between performance criteria and such requirements the legislative requirements take precedence.

Procedures All operations must be performed in accordance with relevant procedures.

Procedures are written, verbal, visual, computer-based or in some other form, and include one or any combination of:

- emergency procedures
- work instructions
- standard operating procedures (SOPs)
- safe work method statements (SWMS)
- formulas/recipes
- batch sheets
- temporary instructions
- any similar instructions provided for the smooth running of the plant.

Tools and Tools and equipment include:

- equipment**
- pressure curing system, such as ‘Monarch’ (air bag) or ‘Thermopress’, and components
 - ancillary equipment that is integral to the process.

Additional tools and equipment will be selected as required from:

- packing
- mounts and stands
- chocks
- wall or floor mounted frames which may be manually, electrically or hydraulically operated
- hoists/lifting equipment not requiring any special permits or licences
- manual handling aids, such as hand carts and trolleys
- relevant PPE.

Problems Routine and non-routine problems must be resolved.

Non-routine problems must be resolved by applying operational knowledge to develop new solutions, either individually or in collaboration with relevant experts, to:

- determine problems needing action
- determine possible fault causes
- develop solutions to problems which do not have a known solution
- follow through items initiated until final resolution has occurred
- report problems outside area of responsibility to designated person.

Non-routine problems are unexpected problems or variations of previous problems and include one or more of:

- variations in quality
- emergency situations
- intermittent faults.

Operational knowledge includes one or more of:

- procedures
- training
- technical information, such as journals and engineering specifications
- remembered experience
- relevant knowledge obtained from appropriate people.

Routine problems are predictable and have known solutions.

Unit Mapping Information

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Links

MSA Training Package Implementation Guides - <http://mskills.org.au/training-packages/info/>