



Australian Government

PMBPROD262 Operate tyre curing equipment

Release: 1

PMBPROD262 Operate tyre curing equipment

Modification History

Release 1. Supersedes and is equivalent to PMBPROD262B Operate tyre curing equipment

Application

This unit of competency covers the skills and knowledge required to operate tyre curing equipment and ancillary equipment that is integral to the process. It applies to curing of 'green' tread onto the tyre casing as used in manufacture of tyres and in 'hot cap' retreads.

This unit of competency applies to operators who are required to perform pre-start start up and shut down procedures, maintain supply of materials, monitor equipment operation and product quality, and recognise routine and non-routine problems and take appropriate action.

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

1 Check work requirements

- 1.1 Identify work requirements from production plan or request
- 1.2 Check product, materials and equipment meet requirements for job
- 1.3 Recognise requirements which may not be in accordance with usual practice

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| | | 1.4 | Ask questions of appropriate person to confirm unusual practice |
| | | 1.5 | Identify hazards associated with the job and take appropriate action |
| | | 1.6 | Perform other pre-operational checks in accordance with procedures |
| 2 | Start up tyre curing equipment to procedures. | 2.1 | Conduct pre-start checks |
| | | 2.2 | Start up tyre curing equipment |
| 3 | Operate equipment to procedures | 3.1 | Start machine safely and correctly when required |
| | | 3.2 | Check process is operating within required limits |
| | | 3.3 | Check product is in specification and to required quality standard |
| | | 3.4 | Ensure product is consistently ready for next operation |
| | | 3.5 | Maintain supply of materials as required |
| | | 3.6 | Complete logs and records when as required |
| | | 3.7 | Collect and segregate scrap, trim and other materials as required in accordance with procedures |
| | | 3.8 | Keep equipment and work area clean area in accordance with procedures |
| | | 3.9 | Pause machine cycle and perform emergency stop, as required by procedures |
| 4 | Respond to routine problems in accordance with procedures | 4.1 | Recognise known faults that occur during the operation |
| | | 4.2 | Identify and take action on causes of routine faults |
| | | 4.3 | Log problems as required |
| | | 4.4 | Identify non-routine process and quality problems and take appropriate action |

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, equipment and production processes and hazardous materials
- 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)
- formulae/recipes

- batch sheets
- temporary instructions
- any similar instructions provided for the smooth running of the plant.

Tools and equipment

Tools and equipment include:

- curing press which may be bagomatic, collapsible bladder or shear strip, solid bladder type
- ancillary equipment that is integral to the process, such as screens/strainers, computer data systems, ball float steam traps, condensate temperature and steam trap monitoring system.

Additional tools and equipment will be selected as required from:

- hoists/lifting equipment not requiring any special permits or licences
- manual handling aids, such as hand carts and trolleys
- relevant personal protective equipment (PPE).

Hazards

Hazards must be identified and controlled. Identifying hazards requires consideration of:

- weight, shape, volume of materials to be handled
- hazardous products and materials
- knives, blades and cutting tools
- sharp edges, protrusions or obstructions
- slippery surfaces, spills or leaks
- rotational equipment or vibration
- high temperatures
- smoke, dust, vapours or other atmospheric hazards
- electricity
- gas
- gases and liquids under pressure
- structural hazards
- equipment failures
- machinery, equipment and product mass
- other hazards that might arise.

Routine problems

Routine problems must be resolved by applying known solutions.

Routine problems are predictable and include one or more of:

- poorly aligned guides
- mould incorrectly placed on machine

- poor mould closure/alignment
- poorly prepared mould (dirty/mould release)
- incorrect temperature settings
- mould temperature/steam pressure/air blinded/waterlogged
- mould/air pressure
- contaminated, squashed or distorted green tyres
- scorched rubber
- curing time/cycle
- product
- excessive trim/spue
- out of round/eccentric.

Known solutions are drawn from one or more of:

- procedures
- training
- remembered experience.

Non-routine problems must be reported according to according to relevant procedures.

Unit Mapping Information

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Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=932aacef-7947-4c80-acc6-593719fe4090>