



Australian Government

PMBPROD261 Operate continuous vulcanising equipment

Release: 1

PMBPROD261 Operate continuous vulcanising equipment

Modification History

Release 1. Supersedes and is equivalent to PMBPROD261B Operate continuous vulcanising equipment

Application

This unit of competency covers the skills and knowledge required to operate continuous vulcanising equipment and ancillary equipment that is integral to the process. Continuous vulcanising equipment is typically used in the manufacture of conveyor belts and similar products.

This unit of competency applies to operators who are required to carry out pre-start, start and stop procedures, maintain feed to the process, monitor and adjust the vulcanising equipment, remove and store product, 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.

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|---|---|--|
| 1 | Check work requirements | 1.1 Identify work requirements from work schedule |
| | | 1.2 Identify product, materials and equipment requirements for job |
| | | 1.3 Recognise hazards and apply appropriate controls |
| | | 1.4 Check with supervisor/appropriate person if requirements are not in accordance with usual practice |
| | | |
| 2 | Conduct pre-start checks to procedures | 2.1 Check safety gates and guards are in position and working |
| | | 2.2 Check green products/belt are correct |
| | | 2.3 Undertake other pre-start checks |
| | | |
| 3 | Operate equipment to procedures | 3.1 Start vulcaniser as required |
| | | 3.2 Check process is within required limits |
| | | 3.3 Remove products/belt and store/coil as required |
| | | 3.4 Check product meets requirements |
| | | 3.5 Maintain supply of green product as required |
| | | 3.6 Complete logs and records when required |
| | | 3.7 Collect and reprocess/discard scrap/trim and other materials |
| | | 3.8 Clean up equipment and work area |
| | | 3.9 Pause equipment, or stop equipment in an emergency, as required |

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|---|--|-----|---|
| 4 | Respond to routine problems to 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:

- the continuous press/autoclave
- ancillary equipment that is integral to the process, such as feed and reeling

equipment.

Additional tools and equipment will be selected as required from:

- monitoring and control equipment
- tools for taking samples
- relevant personal protective equipment (PPE).

Hazards

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

- hazardous products and materials
- 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:

- variations in feed material
- scorched materials
- contamination of materials
- temperature variations
- pressure variations
- entrapped particulates or air
- insufficient bond achieved
- uncured rubber
- exposed reinforcing or wire.

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

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