



Australian Government

PMBPROD239E Build fabric-reinforced conveyor belts

Release: 1

PMBPROD239E Build fabric-reinforced conveyor belts

Modification History

Release 1. Unit code and title changed. Application changed. Elements and Performance Criteria changed. Range of Conditions removed. Assessment Requirements changed. Supersedes and is equivalent to PMBPROD239 Build reinforced conveyor belts.

Application

This unit describes the skills and knowledge required to build and consolidate fibre-reinforced conveyor belts for heat curing under pressure.

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

The unit principally refers to an operator being able to continuously consolidate several layers of calendered rubber strips and internal fabric reinforcement in preparation for heat-based vulcanisation.

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 – Belt Production

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. Check work requirements	1.1 Identify requirements from job specifications 1.2 Perform housekeeping tasks to prepare for work to be undertaken 1.3 Perform pre-operational checks including checking for and acting on hazards
2. Start up belt building equipment	2.1 Conduct pre-startup checks according to equipment specifications 2.2 Start up belt building equipment according to equipment instructions
3. Operate belt building	3.1 Check process is operating according to equipment specifications

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
equipment to procedures	and work requirements 3.2 Ensure output meets job specifications and quality standards 3.3 Ensure output is ready for next operation from production workflow requirements 3.4 Monitor and maintain supply of materials to support operation of equipment 3.5 Accurately complete logs and records 3.6 Apply waste management strategies to collect and segregate scrap, trim and other materials according to workplace procedures 3.7 Clean equipment and work area according to equipment specifications and workplace procedures 3.8 Pause or stop machine cycle in normal and abnormal circumstances according to workplace procedures
4. Respond to process control variances	4.1 Recognise and log process control variances and their causes 4.2 Determine, prioritise and implement remedial and preventative actions based on identified issues and causes 4.3 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 specifications and equipment readings.
- Reading skills to interpret specifications and workplace procedures.
- Writing and oral communication skills to record and report on conveyor belt 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 PMBPROD239 Build reinforced conveyor belts.

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 PMBPROD239E Build fabric-reinforced conveyor belts

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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:

- build fabric-reinforced conveyor belts at least once to meet job specifications.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- the function and principles of the operation of belt consolidation equipment and ancillary equipment
- the components of belt building machinery, including:
 - material supply system
 - pressure system
 - take-up system
- the criteria for overall process/equipment readiness for the process or equipment being used
- production workflow sequences and materials demand
- key variables that may affect product quality and production, including:
 - cycle time
 - pressure
 - belt tension
- reasons for checking process control and reporting readings that are outside of normal range of process variability
- typical process and product problems, including width, thickness, cover/carcass tack and reinforcing damage or contamination, and the:
 - early warning signs
 - possible causes
 - 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.

Links

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