



Australian Government

PMBPROD369E Repair conveyor belt covers

Release: 1

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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 PMBPROD369 Repair conveyor belt covers.

Application

This unit describes the skills and knowledge required to repair lateral, longitudinal, edge and hole damage on conveyor belt covers in a workshop or off-site repair facility.

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

The unit principally refers to the general, universal repair technology used in conveyor belt cover repairs relevant to the many types of specialised conveyor belt covers used across the food processing, transport, mining and general manufacturing industries.

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 – Conveyor Belt Repair

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. Plan belt cover repairs	1.1 Identify requirements from job and equipment specifications 1.2 Identify existing belt surface faults and best approach for bringing conveyor back to production-readiness according to equipment specifications 1.3 Perform pre-repair checks including checking for and controlling hazards 1.4 Design time-efficient and economical work plans that achieve quality standards while minimising downtime and materials wastage 1.5 Identify checks and testing processes required for equipment, materials, quality and production management to meet job

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
	specifications 1.6 Identify waste management strategies to collect waste to be disposed of, recycled or reprocessed according to workplace procedures
2. Conduct belt cover repairs	2.1 Select well-ventilated work area for repair and remove any contaminants 2.2 Isolate equipment and tag to ensure safety 2.3 Strip and remove identified damaged material 2.4 Cut cover to meet measurement and angle specifications and buff damaged area edges 2.5 Conduct repair to return belt cover to serviceable condition 2.6 Vulcanise belt cover repair according to workplace procedures
3. Check belt cover repairs	3.1 Follow checking and testing process to confirm if repairs meet quality specifications, and apply strategies to manage repairs that do not 3.2 Inform customer when belt cover is ready for use, or prepare belt cover for storage or delivery, as required by job specifications
4. Perform post-repair tasks	4.1 Clean, inspect and store tools and equipment used according to equipment instructions 4.2 Clean work area according to workplace procedures 4.3 Apply waste management strategies to collect waste to be disposed of, recycled or reprocessed according to workplace procedures 4.4 Accurately complete workplace documentation
5. Anticipate and solve repair 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 identify, interpret and apply measurements to cut cover materials
- Reading skills to interpret job and equipment specifications and workplace procedures.
- Writing and oral communication skills to record and report on repair results and process control variances.

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 PMBPROD369 Repair conveyor belt covers.

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 PMBPROD369E Repair conveyor belt covers

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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:

- repair conveyor belt covers at least once to meet specifications and quality standards.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- the functions of conveyor systems and relevant isolation procedures
- the principles of operation and repair of conveyor belt systems
- stresses and tensions on belt covers and common causes of failure
- repair workflow sequences and materials
- vulcanising process
- the criteria for overall process/equipment readiness for the process or equipment being used
- products, materials and materials characteristics for cover repairs
- types of covers and related repair methods
- typical quality standards required at each stage of the repair process
- key variables that may affect repair quality, including:
 - belt carcass condition
 - belt location
 - degree of damage
 - forces acting on the conveyor belt
 - environmental conditions
 - lock-out of equipment
- key variables in the vulcanising process, including:
 - temperature
 - pressure
 - time
- typical and atypical belt process, equipment and materials problems, including early warning signs, possible causes and corrective actions
- the distinguishing characteristics of causes of problems, including:

- abrasion
- impact
- tearing
- poor adjustment of skirts, scrapers or other ancillaries
- operational problems
- materials properties or failures
- process variables
- mechanical problems
- organisational procedures relevant to the work environment or job role
- 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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