



Australian Government

PMBPROD378E Splice solid woven conveyor belts

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 PMBPROD378 Splice solid woven conveyor belts.

Application

This unit describes the skills and knowledge required to splice solid woven conveyor belts onsite, in a workshop or at an offsite repair facility.

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

The unit principally refers to solid woven conveyor belts that can be based on synthetic rubber, polyvinyl chloride (PVC), and other polymers. They may be general purpose or specialised and be of various weights and widths.

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 Belts

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 work requirements	1.1 Identify and check requirements including direction of travel from job specifications 1.2 Identify equipment and processes required for production from job specifications 1.3 Identify key variables that may affect quality of splice 1.4 Perform pre-operational checks including checking for and controlling hazards 1.5 Design time-efficient and economical work plans that achieve quality standards while minimising downtime and materials wastage

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
	1.6 Identify waste management strategies to collect excess, discarded or nonconforming materials to be disposed of, recycled or reprocessed according to workplace procedures
2. Prepare solid woven splice	2.1 Isolate equipment and conveyor systems to prepare for splicing 2.2 Restrain belt or belt ends to ensure movement does not occur during splice 2.3 Mark out splice according to specifications 2.4 Cut belt ends to meet measurements and angles for fingers, shapes or patterns from job specifications 2.5 Strip and remove belt covers and carcass material according to equipment instructions 2.6 Prepare and finish belt surfaces in readiness for bonding 2.7 Lay-up splice according to job specifications 2.8 Place conveyor belt identification (brand) on belt according to requirements
3. Check solid woven splice	3.1 Vulcanise solid woven conveyor belt to meet specifications 3.2 Conduct post-vulcanisation quality checks on finished splice 3.3 Inform customer when belt is ready for use, or prepare belt for storage or delivery, according to job specifications
4. Perform post-splicing tasks	4.1 Clean, inspect and store tools and equipment used according to equipment instructions and workplace procedures 4.2 Clean equipment and work area according to equipment instructions and workplace procedures 4.3 Dispose of waste or recycle according to workplace procedures 4.4 Accurately complete workplace documentation
5. Anticipate and solve 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

Foundation Skills

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

- Numeracy skills to interpret specifications and measure dimensions and angles for cutting of belt ends.
- Reading skills to interpret job and equipment specifications and workplace procedures.
- Writing and oral communication skills to record and report on splicing operation 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 PMBPROD378 Splice solid woven 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 PMBPROD378E Splice solid woven 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 of competency, and demonstrated the ability to:

- splice solid woven conveyor belts to meet job specifications, for at least one of the following splices:
 - lapped
 - stepped
 - saddle
 - buff-off
 - finger
 - sawtooth.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- the function of conveyor systems and isolation procedures
- size, shape and pattern of fingers or joint shape to form the splice
- resultant tensile strength of spliced solid woven belt and characteristics of an effective splice
- products, materials and material characteristics for splicing solid woven belts
- typical quality standards required at each stage of the splicing process
- key variables that may affect the quality of the splice, including:
 - belt condition
 - belt location
 - degree and nature of any damage to belt
- typical and atypical belt process, equipment and materials problems, including early warning signs, possible causes and corrective actions.
- 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.

Links

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