



Australian Government

PMBPROD238E Perform creel rack operations for belting production

Release: 1

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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 PMBPROD238 Perform creel rack operations.

Application

This unit describes the skills and knowledge required to operate creel racks in the production of steel cord conveyor belts.

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

The unit principally refers to creel rack operations as a key part of the production line for steel-cord-reinforced synthetic rubber belting.

No licensing or certification requirements exist as 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. Set up and load creel racks	1.1 Perform set-up checks including verifying wire sequence to support operation 1.2 Load spools onto creel racks and complete required set-up actions in readiness for operation 1.3 Perform housekeeping tasks to prepare for work to be undertaken 1.4 Perform pre-operational checks including checking for and acting on hazards
2. Maintain continuous flow of cord during	2.1 Replace broken cord as required to support ongoing operation 2.2 Reload creel racks with spools as required to support ongoing

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
production	operation 2.3 Crimp/join cord as required to support ongoing operation
3. Complete operations	3.1 Dispatch empty spools according to workplace procedures 3.2 Clean work area and apply waste management strategies 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 creel rack 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 PMBPROD238 Perform creel rack operations.

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 PMBPROD238E Perform creel rack operations for belting production

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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:

- perform creel rack operations for belting production at least once, and:
 - perform set-up checks, including checking:
 - crane components for wear
 - crane safety catch is on
 - warning and flashing lights are operating
 - crane operating cable has no kinks
 - passage for crane is clear
 - steel wire conforms to specifications
 - all components are clean of dirt, oil and other contaminants
 - complete set-up, including:
 - pull wires through eyelet boards at front of creel
 - crimp wire using hydraulic crimping press, which may be end-to-end or side-by-side.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- the function of the creel rack equipment being used, and the machine components and guides
- principles of operation of creel rack equipment
- the criteria for overall process/equipment readiness for the process or equipment being used
- crimping techniques and types of presses and their application
- creel rack production workflow sequences and materials demand
- key variables that may affect product quality and production output, and the potential effects of variations in raw materials and equipment operation in relation to quality of product
- reasons for checking process control panels and reporting readings that are outside of normal range of process variability

- typical process and product 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.

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