



Australian Government

PMBPROD339 Produce reinforced conveyor belts

Release: 1

PMBPROD339 Produce reinforced conveyor belts

Modification History

Release 1. Supersedes and is equivalent to PMBPROD339A Produce reinforced conveyor belts

Application

This unit of competency covers the skills and knowledge required to operate and adjust conveyor belt press line to produce reinforced conveyor belts.

This unit of competency applies to experienced operators who are required to start up and shut down conveyor belt line, monitor equipment operation, maintain continuity of process, make adjustments to remedy faults and non-conformity and solve problems within area of responsibility.

This unit of competency applies to an experienced operator demonstrating theoretical and technical knowledge and well developed skills in situations that require some discretion and judgement. The experienced operator may work alone or as a member of a team or group and will work 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

PMBPROD238 Perform creel rack operations

PMBPROD239 Build reinforced conveyor belts

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.

- | | | |
|---|--|---|
| 1 | Plan own work requirements | <p>1.1 Identify equipment to be used for production and upstream and downstream operations from production plan or request</p> <p>1.2 Identify and check materials required</p> <p>1.3 Implement measures to control identified hazards in line with procedures and duty of care</p> <p>1.4 Identify requirements for materials, quality, production and equipment checks</p> |
| 2 | Start up belt press line to procedures | <p>2.1 Identify process settings required for product</p> <p>2.2 Set process to required settings</p> <p>2.3 Check materials are correct</p> <p>2.4 Take appropriate action for non-conforming materials</p> <p>2.5 Set up date, batch and materials markings to specifications, as required</p> <p>2.6 Complete pre-start checks</p> <p>2.7 Start up process as required</p> |
| 3 | Operate and make adjustments to the belt press line to procedures | <p>3.1 Operate belt line, noting key variables</p> <p>3.2 Monitor control panel for production and process data</p> <p>3.3 Inspect product as required and identify product out-of-specification</p> <p>3.4 Monitor product/process quality</p> <p>3.5 Make adjustments to remedy faults and non-conformity as required</p> <p>3.6 Maintain continuity of process</p> |

- 3.7 Prepare press line for next cycle
- 3.8 Adjust process to minimise scrap and trim
- 3.9 Clean, adjust and lubricate equipment as required

- 4 **Shut down machine to procedures**
 - 4.1 Determine type of shutdown
 - 4.2 Clean as required
 - 4.3 Leave machine in appropriate condition and with appropriate locks, tags or notices
 - 4.4 Complete relevant documentation
 - 4.5 Ensure area is clean and clear after the shutdown, in readiness for the next start-up

- 5 **Anticipate and solve problems**
 - 5.1 Recognise a problem or a potential problem
 - 5.2 Determine problems needing priority action
 - 5.3 Refer problems outside area of responsibility to appropriate person, with possible causes
 - 5.4 Seek information and assistance as required to solve problems
 - 5.5 Solve problems within area of responsibility
 - 5.6 Follow through items initiated until final resolution has occurred

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, manual handling 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)
- formulas/recipes
- batch sheets
- temporary instructions
- any similar instructions provided for the smooth running of the plant.

Tools and equipment Tools and equipment include:

- press line and components (e.g. feed mechanisms, rams and guides)
- ancillary equipment that is integral to the process.

Additional tools and equipment will be selected as required from:

- belt cutters
- trimmers
- hand tools used in this process
- hoists/lifting equipment not requiring any special permits or licences
- manual handling aids, such as hand carts and trolleys
- relevant personal protective equipment (PPE).

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

- weight, shape, volume of materials to be handled
- hazardous products and materials
- rotational equipment or vibration
- sharp edges, protrusions or obstructions
- slippery surfaces, spills or leaks
- smoke, dust, vapours or other atmospheric hazards
- high temperatures
- electricity
- gas
- gases and liquids under pressure
- structural hazards
- equipment failures
- machinery, equipment and product mass
- other hazards that might arise.

Problems Non-routine problems must be resolved by applying operational knowledge to develop new solutions, either individually or in collaboration with relevant experts, to:

- determine problems needing action
- determine possible fault causes
- develop solutions to problems which do not have a known solution
- follow through items initiated until final resolution has occurred
- report problems outside area of responsibility to designated person.

Non-routine problems are unexpected problems or variations of previous problems and include one or more of:

- unstable process variables
- sub-optimal operation

- variations in feed rates
- variations in quality
- emergency situations
- release problems
- distortion of product
- blisters/bubbles/belt separation
- intermittent faults.

Operational knowledge includes one or more of:

- procedures
- training
- technical information, such as journals and engineering specifications
- remembered experience
- relevant knowledge obtained from appropriate people.

Unit Mapping Information

Release 1. Supersedes and is equivalent to PMBPROD339A Produce reinforced conveyor belts

Links

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