Australian Government

PMBPROD239 Build reinforced conveyor belts

Release: 1

INDUSTRY SKILLS COUNCILS
Creating Australia's Future

PMBPROD239 Build reinforced conveyor belts

Modification History

Release 1. Supersedes and is equivalent to PMBPROD239A Build reinforced conveyor belts

Application

This unit of competency covers the skills and knowledge required to build reinforced conveyor belts prior to curing. This process is sometimes referred to as consolidation.

This unit of competency applies to operators who are required to carry out pre-operational checks, maintain feed to the process, monitor and adjust the belt building equipment, and recognise routine and non-routine problems and take appropriate action.

This unit of competency applies to an individual working alone or as part of a team or group and working 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

Nil

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	**Check work requirements**	1.1 Identify work requirements from production plan or request
		1.2 Check product, materials and equipment meet requirements for job

		1.3	Recognise requirements which may not be in accordance with usual practice
		1.4	Ask questions of appropriate person to confirm unusual practice
		1.5	Ensure housekeeping is to requirements
		1.6	Identify hazards associated with the job and take appropriate action
		1.7	Perform other pre-operational checks in accordance with procedures
2	**Operate belt building equipment to procedures**	2.1	Check process is operating within required limits
		2.2	Check product is in specification and to required quality standard
		2.3	Ensure product is consistently ready for next operation
		2.4	Maintain supply of materials as required
		2.5	Complete logs and records as required
		2.6	Collect and segregate scrap, trim and other materials as required
		2.7	Keep equipment and work area clean
		2.8	Pause machine cycle and perform emergency stop, as required
3	**Respond to routine problems to procedures**	3.1	Recognise known faults that occur during the operation
		3.2	Identify and take action on causes of routine faults
		3.3	Log problems as required
		3.4	Identify non-routine process and quality problems and take appropriate action

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, equipment and production processes 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:

- belt building consolidator/layup equipment
- components of belt building machine, including one or more of:
  - material supply system

  - pressure system
  - take up system
- ancillary equipment that is integral to the process, other than creel racks.

Additional tools and equipment will be selected as required from:

- hand tools used in the 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:

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

Routine problems

Routine problems must be resolved by applying known solutions.

Routine problems are predictable and include one or more of:

- equipment malfunction
- variations in cycle time
- variations in pressure
- variations in belt tension
- variations in materials or contamination of materials
- product problems, such as:
  - width
  - thickness
  - cover/carcass tack
  - reinforcing damage or contamination.

Known solutions are drawn from one or more of:

- procedures
- training
- remembered experience.

Non-routine problems must be reported according to according to relevant procedures.

Unit Mapping Information

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Links

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