



Australian Government

PMBPREP301 Set up and prepare for production

Release: 1

PMBPREP301 Set up and prepare for production

Modification History

Release 1. Supersedes and is equivalent to PMBPREP301C Set up and prepare for production

Application

This unit of competency covers the skills and knowledge required to prepare materials and equipment for production. It applies to batch, one-off and non-standard production lots as typically used in the plastics, rubber and cabling sectors.

This unit of competency applies to advanced operators and those in similar roles who are required to interpret specifications in order to select materials and equipment; identify special tooling and set up requirements; draft a work process plan; and set up, check and adjust the production process.

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

Preparation

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.

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|---|-----|---|
| 1 Select equipment and materials | 1.1 | Identify equipment and materials from job specification |
| | 1.2 | Check equipment and materials for conformity to specification |
| | 1.3 | Note any variances in materials (within materials supplier specifications) which may require variation in |

		production process settings
	1.4	Identify requirements for special tooling and set up
	1.5	Note conformity deficiencies and report to appropriate personnel
	1.6	Identify production objectives and timelines
	1.7	Clarify product specifications
	1.8	Draft work process plan, noting key quality characteristics, check points and activities where other personnel will be involved
2	Prepare tools, equipment and materials	
	2.1	Locate tools and equipment within workplace ensuring safety and operational checks are performed and equipment is appropriate for purpose
	2.2	Obtain materials specifications and confirm materials are at site for the commencement of production in accordance with established procedures
	2.3	Check materials are prepared to achieve product specification
3	Set up and check production process	
	3.1	Follow procedures for set-up in accordance with workplace procedures, customer requirements and specifications
	3.2	Set machine control parameters in accordance with specifications
	3.3	Check work process plan and set up for conformity with identified workplace procedures and customer requirements
	3.4	Make any required adjustments to own work plan
	3.5	Obtain appropriate clearances for production to commence
	3.6	Check equipment for function and make provisional control settings
	3.7	Check performance of equipment and materials

		3.8	Adjust process settings and materials to ensure production outcomes are within quality specifications
		3.9	Make and store records of required adjustments within specification ranges in accordance with workplace procedures
4	Respond to routine problems to procedures	4.1	Recognise known problems that occur during the operation
		4.2	Identify and take action on causes of routine problems
		4.3	Log problems as required
		4.4	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, 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 one or more of:

- hand carts and trolleys
- hoists/lifting equipment not requiring any special permits or licences
- 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
- sharp edges, protrusions or obstructions
- slippery surfaces, spills or leaks
- heat, smoke, dust, vapours or other atmospheric hazards
- electricity
- gas
- gases and liquids under pressure
- structural hazards
- equipment failures
- machinery, equipment, product mass

- other hazards that might arise.

Non-routine 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:

- power or equipment failures
- temperature variations
- variations in materials
- contamination of materials
- faulty functioning of equipment.

Operational knowledge includes one or more of:

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

Unit Mapping Information

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Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=932aacef-7947-4c80-acc6-593719fe4090>