PMBPROD240 Cut materials

Release: 1

PMBPROD240 Cut materials

Modification History

Release 1. Supersedes and is equivalent to PMBPROD240C Cut materials

Application

This unit of competency covers the skills and knowledge required to use specialised equipment or procedures to cut materials to size, shape or to a pattern.

This unit of competency applies to operators who are required to identify the requirements for the job, prepare material and equipment for the work, operate cutting tools/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 procedures
	1.2	Identify product, materials and equipment requirements for job
	1.3	Recognise hazards and adopt steps required to ensure safety
	1.4	Check with supervisor/appropriate person if

		requirements are not in accordance with usual practice
2	**Conduct pre-start checks as required**	2.1 Check safety gates and guards are in position and working
		2.2 Check raw materials are correct
		2.3 Undertake other pre-start checks in accordance with procedures
3	**Use tools/equipment**	3.1 Operate cutting tools/equipment to cut materials to procedures
		3.2 Monitor dimensions, quality and quantity of cuts
		3.3 Remedy faults and non-conformances by correcting operation or adjusting tools/equipment as required
		3.4 Collect material which is able to be recycled or reused, separate and dispose of waste and scrap
4	**Resolve routine problems**	4.1 Identify likely faults that occur during the operation/task
		4.2 Identify and take action on causes of routine faults in accordance with procedures
		4.3 Make sure appropriate records and log books of equipment operations are maintained to meet procedures
		4.4 Identify non-routine problems and report to designated person

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 one or more of:

- guillotines
- power saws

- jig saws
- band saws
- thermal cutting devices
- programmable logic controllers (PLC) if fitted.

Additional tools and equipment will be selected as required from:

- hand tools
- 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:

- blades and cutting equipment
- weight, shape, volume of materials to be handled
- 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:

- incorrect pattern, marking errors
- equipment wear or breakage
- variations in temperature
- loss of power or drives
- controller sequence or timer issues.

Known solutions are drawn from one or more of:

Innovation and Business Skills Australia

- procedures
- training
- remembered experience.

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

Unit Mapping Information

Release 1. Supersedes and is equivalent to PMBPROD240C Cut materials

Links

Companion Volume implementation guides are found in VETNet - https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=932aacef-7947-4c80-acc6-593719fe4090