



Australian Government

MSMOPS201 Cut polymer materials

Release: 1

MSMOPS201 Cut polymer materials

Modification History

Release 1. Supersedes and is equivalent to MSAPMOPS201A Cut polymer materials

Application

This unit of competency covers the skills and knowledge required to prepare and operate specialised equipment and apply procedures to cut polymer materials, such as sheet, pipe or rod, to size, shape or to a pattern.

The operator will be required to make products to meet quality standards and workplace requirements and resolve routine problems according to procedures.

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.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Competency Field

Operations

Unit Sector

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
		1.2	Identify product, materials and equipment requirements for job
		1.3	Identify and control hazards
		1.4	Check with supervisor/appropriate person if requirements are not in accordance with usual practice

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| 2 | Conduct pre-cutting operations in accordance with procedures | 2.1 | Check raw materials are correct |
| | | 2.2 | Mark out/lay out job for cutting taking account of directional properties in materials as appropriate |
| | | 2.3 | Undertake other pre-cutting requirements in accordance with procedures |
| 3 | Cut to requirements | 3.1 | Cut materials using cutting tools/equipment in accordance with procedures |
| | | 3.2 | Monitor dimensions, shape, quality and quantity of cuts |
| | | 3.3 | 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 problems during the operation/task |
| | | 4.2 | Resolve routine problems in accordance with procedures |
| | | 4.3 | Take appropriate action on other problems |
| | | 4.4 | Complete required records in accordance with procedures |

Foundation Skills

This section describes those language, literacy, numeracy and employment skills 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, and include one or more of the

following:

- legislative requirements, including work health and safety (WHS)
- industry codes of practice and guidelines
- environmental regulations and guidelines
- Australian and other standards
- licence and certification requirements

Work requirements

Work requirements will be determined from one or more of the following:

- job/shop orders
- plans/specifications
- procedures
- directions from authorised persons
- meeting (e.g. toolbox meeting)
- any similar instructions provided for the smooth running of the plant.

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 more of the following:

- 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 the following:

- guillotines
- power saws
- jig saws
- band saws
- thermal cutting devices
- hand tools
- controllers, such as programmable logic controller (PLC), for tools and equipment fitted

Hazards

Hazards include one or more of the following:

- heat, smoke, dust or other atmospheric hazards
- electricity
- gas
- equipment failures
- industrial (machinery, equipment and product)
- equipment or product mass
- noise, rotational equipment or vibration
- fire and explosion
- hazardous products and materials
- unauthorised personnel
- sharp edges, protrusions or obstructions
- slippery surfaces, spills or leaks
- extreme weather
- 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 and marking errors
- equipment wear and breakage, temperature variations, loss of power or drives, controller sequence and timer issues
- sequencing problems

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.

Records

Records include one or more of the following:

- log books/sheets
- electronic records
- job/work sheets
- other records used for the smooth running of the plant.

Unit Mapping Information

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Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=d1287d36-dff4-4e9f-ad2c-9d6270054027>