



Australian Government

PMC552042 Operate blown insulation equipment

Release: 1

PMC552042 Operate blown insulation equipment

Modification History

Release 1. Supersedes and is equivalent to PMC552042C Operate blown insulation equipment

Application

This unit of competency covers the skills and knowledge required to operate blowing equipment, as used for manufacturing of glass insulation, and ancillary equipment that is integral to the process.

This unit of competency applies to operators who are required to prepare, operate and monitor the equipment, check supply and quality of materials stocks, undertake sampling and quality checks and identify and rectify routine problems.

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

Operations

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 Prepare formation equipment | 1.1 Interpret job specifications and set up the appropriate line/equipment |
| | 1.2 Check materials stocks for quality and quantity suitable |

- for production run
- 1.3 Undertake equipment preparation and checks according to established procedures
 - 1.4 Conduct initial product run/procedure to produce samples to confirm that quality meets specifications
 - 1.5 Make machinery/equipment adjustments and final preparations to ensure that job specifications are met
- 2 **Form the products**
- 2.1 Start forming process line and monitor equipment to ensure that quality specifications are met
 - 2.2 Monitor operating parameters according to procedures
 - 2.3 Make operation adjustments according to established procedures to maintain product quality
 - 2.4 Conduct product sampling and quality control checks according to standard procedures to ensure and maintain the forming specifications
 - 2.5 Use and observe ancillary equipment and safety procedures in accordance with enterprise requirements
 - 2.6 Document and maintain records and production results according to enterprise requirements
 - 2.7 Identify processing problems and report to a designated person for rectification
- 3 **Rectify routine problems**
- 3.1 Identify the range of faults that can occur during the operation
 - 3.2 Determine and rectify fault causes by procedures
 - 3.3 Identify and rectify equipment failure causes in accordance with procedures
 - 3.4 Ensure appropriate records and log books of equipment operations are maintained to meet procedures
 - 3.5 Identify non-routine problems and report to designated person

- | | | | |
|---|------------------------|-----|---|
| 4 | Control hazards | 4.1 | Identify hazards from the job to be done |
| | | 4.2 | Identify other hazards in the work area |
| | | 4.3 | Assess the risks arising from those hazards |
| | | 4.4 | Implement measures to control those risks in line with procedures |

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:

- job cards
- 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:

- forming equipment

- ancillary equipment that is integral to the process
- measuring equipment.

Problems Routine problems must be resolved by applying known solutions.

Routine problems are predictable and include one or more of:

- temperature and pressure problems
- equipment problems
- quality problems, such as:
 - broken packs
 - mixed and damaged material
 - binder delivery
 - blocked spinners/spray rings
 - poor glass quality.

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.

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

- high temperatures
- smoke, dust, vapours or other atmospheric hazards
- weight, shape, volume of materials to be handled
- hazardous products and materials
- sharp edges, protrusions or obstructions
- slippery surfaces, spills or leaks
- electricity
- gas
- gases and liquids under pressure
- noise
- rotational equipment or vibration
- plant services (steam, condensate, cooling water, etc)
- structural hazards

- equipment failures
- machinery, equipment and product mass
- limited head spaces or overhangs
- working at heights
- working in restricted or confined spaces
- other hazards that might arise.

Records and reports Records include one or more of:

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

Reports include one or more of:

- paper or electronic-based logs and reports
- verbal/radio reports
- reporting items found which require action.

Unit Mapping Information

Release 1. Supersedes and is equivalent to PMC552042C Operate blown insulation equipment

Links

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