



Australian Government

MSFGG4013 Set up operate and maintain a glass processing line

Release: 1

MSFGG4013 Set up operate and maintain a glass processing line

Modification History

Release 1. Supersedes and is equivalent to MSFGG4005 Set up, configure, upgrade and troubleshoot glass and glazing plant and ancillary equipment.

Application

This unit describes the skills and knowledge required to set up, test, adjust, troubleshoot and quality assure a range of glass and glazing processing plant and equipment. It may involve non-numerical control (NC) and/or computer numerically controlled (CNC) production machines and processes for semi-automatic or automatic operation. Troubleshooting involves using testing equipment to identify problems and take corrective action.

This unit applies to plant technicians who resolve potentially complex equipment problems, sometimes in consultation with technical advisers.

No licensing or certification requirements exist at the time of publication. Relevant legislation, industry standards and codes of practice within Australia must be applied.

Pre-requisite Unit

N/A

Unit Sector

Glass and Glazing.

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Identify plant set up requirements	1.1 Identify and correctly interpret specifications for glass processing to determine process application 1.2 Confirm and check plant machinery and ancillary equipment for safe and effective operation 1.3 Confirm quality requirements for each stage of the process
2. Set machines	2.1 Determine sequence of glass processing operations and set and program plant machinery in accordance with manufacturer instructions 2.2 Adjust plant machinery and programs to meet glass product

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	specifications and operational requirements 2.3 Complete plant pre-start, startup and set up procedures in accordance with manufacturer instructions and workplace procedures 2.4 Accurately complete workplace documentation
3. Trial program	3.1 Operate plant to process glass, observing all safety procedures 3.2 Check sample glass product for compliance with specifications 3.3 Accurately edit programs to change operational sequence, speed and tolerance requirements to ensure processing conforms to specification
4. Identify and rectify quality issues	4.1 Test quality of products produced and use results to determine if machines are operating to specification 4.2 Recognise signs of equipment or product degradation and impending failure 4.3 Examine maintenance records to ensure that plant machinery and equipment does not require simple maintenance 4.4 Access calibration records and test equipment to determine if plant is operating within calibration 4.5 Identify possible causes of substandard performance through testing and elimination techniques 4.6 Assess adjustments and corrections made based on testing 4.7 Check plant and equipment to ensure correct operation and accurately document results of rectification
5. Instruct machine operators	5.1 Clearly explain and demonstrate procedures for safe and effective plant operation to machine operator 5.2 Provide operator with the opportunity to practice and ask questions 5.3 Monitor operator for correct application of procedures and provide additional instruction where necessary

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Unit Mapping Information

Supersedes and is equivalent to MSFGG4005 Set up, configure, upgrade and troubleshoot glass and glazing plant and ancillary equipment.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0601ab95-583a-4e93-b2d4-cfb27b03ed73>

Assessment Requirements for MSFGG4013 Set up operate and maintain a glass processing line

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Performance Evidence

There must be evidence the candidate has completed the tasks outlined in the elements and performance criteria of this unit, and:

- set up, operated and maintained the operation of glass processing plant and equipment (comprising at least 3 different pieces of equipment) from process start to finish.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- workplace safety systems for plant and equipment
- general operating principles and features of glass and glazing processing plants, including:
 - process control philosophies, strategies and systems
 - systems operating parameters and integrity limits
 - architecture and location of the glass process and/or production equipment
 - interactions between glass plant items and/or processes and between plant units within entire plant
 - communication systems and protocols
 - emergency shutdown procedures
- organisational procedures for the operation of a specific glass plant
- glass product specifications and quality standards
- types, characteristics and uses of glass plant and equipment, including those for all of the following both cutting and processing lines, both NC and CNC
- features and formats of glass and glass processing plant technical specifications and repair manuals
- principles and techniques of machine setting and adjustment
- troubleshooting procedures for testing equipment, typical fault conditions and relevant fault finding procedures
- maintenance and repair planning, processes and techniques
- procedures for attaching ancillary device(s) to non-NC and/or CNC machines
- measuring devices and techniques for checking glass products
- effects of changes to cutting feeds and speeds
- hazards and control measures associated with computer-controlled machines, including housekeeping.

Assessment Conditions

Skills must have been demonstrated in a glass and glazing production workplace.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

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