



Australian Government

MSFGG4022 Manage glass processing plant shutdown and restart

Release: 1

MSFGG4022 Manage glass processing plant shutdown and restart

Modification History

Release 1. Supersedes and is equivalent to MSFGG4015 Manage glass processing plant shutdown and restart. Changes to application, elements, performance criteria and assessment requirements.

Application

This unit describes the skills and knowledge required to coordinate and document the safe and efficient shutdown and restart of a glass production or processing plant. The shutdown may be a planned or an unplanned shutdown or emergency.

This unit applies to experienced workers who interpret and use advanced technical information to develop solutions to potentially complex glass and glazing requirements. They commonly work independently and typically solve complex problems that require theoretical knowledge and experience about the specification, manufacture and installation of a wide range of glass and glazing products. Job roles commonly involve leadership and supervisory responsibilities.

Workers with this competency typically work as leading plant technician on a shift. They use discretion and judgement to respond to the shutdown and coordinate all personnel involved to ensure the shutdown is safe and orderly and that the plant is left in the best condition possible for a quick restart.

At the time of this unit's release, the work described in this unit does not require licensing or certification, but state or territory authorities should be consulted to determine the current status. Workers on construction sites are required by law to complete induction training. They must also comply with relevant legislation, Australian Standards, codes and manufacturers' installation instructions.

Competency Field

Glass and glazing

Elements and Performance Criteria

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Manage the shutdown sequence	1.1 Check plant safety systems and ensure the plant has been made safe 1.2 Identify and analyse the reason for the plant shutdown using information systems and other data 1.3 Obtain confirmation of the identified shutdown from operators to

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
	verify the nature and the reliability of the shutdown 1.4 Initiate procedures to rectify the cause of the fault or shutdown with repair or readjustment before returning the system to start-up status
2. Conduct the start-up process	2.1 Satisfy all start-up permissions before starting the start-up process 2.2 Conduct start-up and return to normal operation according to workplace procedures
3. Document the shutdown and start-up process	3.1 Complete logs and workplace documentation with required details, actions and responses 3.2 Record and report any ongoing production problems according to workplace procedures

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

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

Unit Mapping Information

Supersedes and is equivalent to MSFGG4015 Manage glass processing plant shutdown and restart.

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 MSFGG4022 Manage glass processing plant shutdown and restart

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Performance Evidence

There must be evidence the candidate has completed the tasks in the elements and performance criteria of this unit of competency and has demonstrated the ability to:

- shut down a glass processing plant on at least one occasion in response to a fault
- analyse the cause or reason for the shutdown
- take remedial action
- restart the plant.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- workplace safety system and its relationship to plant shutdown and restart
- basic physics, chemistry and mathematics relevant to the process
- glass product specifications and tolerances
- general operating principles and features of glass processing plants, including:
 - process control philosophies, strategies and systems, including multiple control systems
 - basis of control for glass processing plant/s
 - 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
 - fire and gas detection and/or protection systems
 - emergency shutdown procedures
- organisational procedures for the operation of a specific glass plant
- the reason(s) for a planned, unplanned and emergency processing plant:
 - shutdown to cold
 - short shutdown to allow minor work
 - warm shutdown
 - plant trip and restart hot shutdown

- typical routine and major glass processing plant idiosyncrasies and problems, faults and the process of how to respond
- personnel involved in a shutdown and their roles
- complex process drawings, including piping and instrumentation diagrams (P&IDs) and probability of failure on demand (PFD)
- correct methods of starting, stopping, operating and controlling glass processing plants.

Assessment Conditions

Skills must have been demonstrated in a glass processing workplace or in a simulated environment that reflects workplace conditions and contingencies. The following conditions must be met for this unit:

- use of suitable facilities, equipment and resources, including:
 - a complex glass processing plant control system to shut down a plant in response to a fault
 - workplace procedures.

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

Links

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