



Australian Government

MSFGG4015 Manage glass processing plant shutdown and restart

Release: 1

MSFGG4015 Manage glass processing plant shutdown and restart

Modification History

Release 1. Supersedes and is equivalent to MSFGG4007 Manage glass processing plant shutdown and restart.

Application

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

This unit typically applies to the leading plant technician on a shift, who uses discretion and judgment to respond to the cause of the shutdown and coordinate all personnel involved in the shutdown to ensure it happens in an orderly a fashion and that the plant is left in the best condition possible for a quick restart. It does not apply to individual plant operators shutting down individual production units.

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. Manage shutdown sequence	1.1 Check and verify glass plant safety systems and ensure that plant has been made safe 1.2 Identify the reason for, or cause of, the plant shutdown by troubleshooting the system using all available data and information systems 1.3 Obtain confirmation of the identified shutdown from operators to verify both the nature and the reliability of the shutdown 1.4 Initiate procedures to rectify the fault or shutdown cause through repair or readjustment before returning the system to startup status

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
2. Conduct startup process	2.1 Satisfy all start-up permissions prior to startup process being commenced 2.2 Safely and efficiently conduct startup and return to normal operation in accordance with workplace procedures
3. Document shutdown and startup process	3.1 Accurately complete logs and workplace documentation with required details, actions and responses 3.2 Record and report any ongoing production problems to appropriate persons or authority

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 MSFGG4007 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 MSFGG4015 Manage glass processing plant shutdown and restart

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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:

- shutdown and restarted a glass processing plant safely and efficiently on at least 1 occasion.

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
- planned, unplanned and emergency reasons for processing plant shutdown, and different types of shutdown:
 - shutdown 'to cold'
 - short shutdown to allow minor work
 - 'warm shutdown'
 - plant trip and restart 'hot shutdown'
- the actions involved in facilitating a shutdown and who is involved
- 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 respective roles
- complex process drawings, including piping and instrumentation diagrams (P&ID), 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.

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

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