



Australian Government

Assessment Requirements for MSF GG4022 Manage glass processing plant shutdown and restart

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to MSF GG4015 Manage glass processing plant shutdown and restart. Changes to application, elements, performance criteria and assessment requirements.

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

Companion Volume implementation guides are found in VETNet – -

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