



Australian Government

MSFGG4007 Manage glass processing plant shutdown and re-start

Release: 1

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Modification History

Release 1 - New unit of competency

Application

This unit of competency covers the coordination of the shutdown and re-starting of a glass production or processing plant in a safe and efficient manner due to a planned or an unplanned shutdown or emergency situation. It does not apply to individual plant operators shutting down individual production units or following directions during a shutdown and would typically be exercised by the leading plant technician on a shift.

This unit requires the exercise of discretion as the plant technician's responses are governed by the cause of the shutdown and the plant's responses to that. It requires the coordination of all personnel involved in the shutdown to ensure it happens in as orderly a fashion as possible and that the plant is left in the best condition possible for a quick re-start.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Competency Field

Unit Sector

Glass and Glazing

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

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| 1 | Manage shutdown sequence | 1.1 | Glass plant safety systems are checked and verified to ensure that the unit has been made safe |
| | | 1.2 | The reason for, or cause of, the plant shutdown is identified by troubleshooting the system and utilising all available data and information systems |

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| | | 1.3 | Confirmation of the identified shutdown is obtained from operators to verify both the nature and the reliability of the shutdown |
| | | 1.4 | Procedures are initiated to rectify the fault or shutdown cause through either repair of the operational fault or readjustment before returning the system to start-up status |
| 2 | Conduct start-up process | 2.1 | All start-up permissives are satisfied prior to start-up process being commenced |
| | | 2.2 | Start-up is conducted according to procedures and in a safe and efficient manner, ensuring a return to normal operation is achieved |
| 3 | Document shutdown and start-up process | 3.1 | All logs and workplace documentation relating to the shutdown/start-up process are completed ensuring all details, actions and responses are accurately recorded |
| | | 3.2 | Any further ongoing production problems are recorded and reported to appropriate persons or authority |

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency. Detail on appropriate performance levels for each furnishing unit of competency in reading, writing, oral communication and numeracy utilising the Australian Core Skills Framework (ACSF) are provided in the Furnishing Training Package Implementation Guide.

Range of Conditions

Specifies 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. Range is restricted to essential operating conditions and any other variables essential to the work environment.

Reasons for glass processing plant shutdown include:	- planned (e.g. for maintenance or other planned work) - unplanned (e.g. in response to a plant upset or equipment failure) - emergency (e.g. in response to an automatic shutdown sequence or plant trip)
Shutdown includes:	- shutdown 'to cold' (e.g. complete plant shutdown and purging of all process materials from equipment) - short shutdown to allow minor work 'warm shutdown' (e.g. partial shutdown, with retention of some or all of process materials) - managing a plant trip and restart 'hot shutdown' (e.g. short duration shutdown in response to a plant upset or trip)
Shutdown actions include:	- coordinating the shift team - implementing emergency procedures - using the permit to work system (for repairs required) - performing all operations according to procedures
Relevant personnel include:	- panel technicians - outside technicians - technicians seconded to a shutdown role - other relevant personnel
Work health and safety (WHS) requirements include:	- Commonwealth, state or territory legislation and regulations - organisational safety policies and procedures - the use of personal protective equipment and clothing - firefighting equipment - first aid equipment - hazard and risk control and elimination of hazardous materials and substances - manual handling, including lifting and carrying
Appropriate action includes:	- determining problems needing action - determining possible fault causes - rectifying problem using appropriate solution within area of responsibility - following through items initiated until final resolution has occurred - reporting problems outside area of responsibility to designated person

Procedures include:	• work instructions • standard operating procedures • formulas/recipes • batch sheets • temporary instructions • any instructions provided for the smooth running of the plant • written, verbal or computer-based procedures
Glass plant/equipment include:	• glass laminating plant • glass toughening plant • insulated glass plant • glass silvering plant • glass printing plant • cutting (including water jet), seaming, edge grinding and computer numerically controlled (CNC) milling
Organisational requirements include:	• legal, organisational and site guidelines, policies and procedures relating to own role and responsibility • quality assurance • procedural manuals • quality and continuous improvement processes and standards • WHS procedures • emergency and evacuation • ethical standards • recording and reporting • access and equity principles and practices • equipment use, maintenance and storage • environmental management (waste disposal, recycling and re-use guidelines)

Unit Mapping Information

No equivalent unit

Links

Companion Volume implementation guides are found in VETNet -
<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=0601ab95-583a-4e93-b2d4-cfb27b03ed73>