



Australian Government

**Assessment Requirements for
MSMPMC403 Set up and optimise glass
forming process**

Release: 1

Assessment Requirements for MSMPMC403 Set up and optimise glass forming process

Modification History

Release 1. New unit. Supersedes and is equivalent to PMC553040 Set up and optimise glass forming process

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 and optimised a glass forming process on at least 1 occasion, including:
 - monitoring the following key variables to ensure product integrity and conformance to specification:
 - installation and performance of equipment and tooling
 - process parameters
 - yield
 - energy utilisation
 - variations
 - fluctuations
 - trends
 - material properties and chemical reactions
 - recognising possible causes of the following problems:
 - electrical, mechanical and instrument failure and malfunction
 - wrong readings
 - material variations and contamination
 - process abnormalities
 - procedural errors
 - atmospheric conditions.
 -

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- principles of glass forming process
- glass forming, ancillary, measuring and recording equipment, including:
 - functions, limitations
 - start-up, operation and shutdown processes
 - impact of equipment settings on product quality, production output and optimisation of process

- impact of variations in process conditions and raw materials on product quality, production output and optimisation of process
- importance of atmospheric conditions and effect on process
- characteristics of materials being processed and their behaviour in relation to process conditions and stages of production
- quality requirements at each stage of production
- common adjustments in process variables and their impact on product quality and production output
- routine and non-routine problems that may arise, the range of possible causes and appropriate actions
- work health and safety (WHS) requirements relevant to work outcome
- glass forming hazards and:
 - their possible causes
 - potential consequences
 - risk control procedures.
 -

Assessment Conditions

Skills must have been demonstrated in the 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:
 - glass forming equipment, ancillary equipment and materials
 - specifications, procedures and job sheets
- modelling of industry operating conditions, including:
 - routine and non-routine problems.

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

Links

Companion Volume Implementation Guides are available at VETNet -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=d1287d36-dff4-4e9f-ad2c-9d6270054027>