



Australian Government

MSFGG3041 Manufacture insulated glass units

Release: 1

MSF GG3041 Manufacture insulated glass units

Modification History

Release 1. Supersedes and is equivalent to MSF GG3013 Set up and operate insulated glass unit manufacturing equipment.

Application

This unit describes the skills and knowledge required to set up and operate insulated glass unit (IGU) manufacturing equipment to process two sheets of glass that are separated by a spacer and sealed to form an airtight unit and conducting associated quality testing.

This unit applies to glass processing workers producing insulated glass units (IGUs) in accordance with pre-determined work orders.

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. Prepare for work	1.1 Read work instructions and identify job and quality requirements 1.2 Identify and follow work health and safety requirements, using all required personal protective equipment 1.3 Identify quality procedures for each stage of the process 1.4 Plan work sequence in a logical order to suit the job and workplace procedures 1.5 Establish and maintain communication with others involved with the work to ensure efficient work flow coordination, personnel cooperation and safety
2. Set up equipment	2.1 Complete pre-operational equipment checks in accordance with workplace procedures

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	2.2 Confirm machine operation through quality checks on first production of finished items 2.3 Make adjustments to settings and parameters based on initial quality checks
3. Conduct IGU manufacturing operations	3.1 Load and orient glass sheets into IGU machine using the appropriate mechanical and automated handling equipment 3.2 Assemble IGU spacers in accordance with specification and workplace procedures 3.3 Operate IGU machine to wash and dry glass and to press the unit using any required additives 3.4 Operate primary and secondary seal equipment in accordance with workplace procedures 3.5 Conduct testing for water vapour (dewpoint) and integrity of sealing (moisture) in accordance with workplace procedures
4. Complete work and maintain equipment	4.1 Inspect completed product for compliance with quality and work order requirements and reprocess or discard in accordance with workplace procedures 4.2 Quarantine, label and store serviceable units in accordance with industry standards and workplace procedures 4.3 Clean work area and safely dispose of rubbish 4.4 Clean and inspect IGU machine for serviceability in accordance with workplace procedures 4.5 Inspect, maintain and tag equipment in accordance with workplace procedures 4.6 Remove and store tools, equipment and unused materials in accordance with workplace procedures 4.7 Accurately complete required workplace documentation

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 MSFGG3013 Set up and operate insulated glass unit manufacturing equipment.

Links

Companion Volume implementation guides are found in VETNet -

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