



Australian Government

Assessment Requirements for AUMGTW005 Perform gas metal arc welding

Release: 1

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Modification History

Release	Comment
Release 1	Unit updated to reflect the new standards for Training Packages Replaces AUMGTW3005 Perform gas metal arc welding operations

Performance Evidence

Before competency can be determined, individuals must have competently demonstrated gas metal arc welding (GMAW) operations on a minimum of three occasions.

Individuals must demonstrate they can:

- identify welding requirements from work sheets and work instructions
- prepare welding equipment and work area according to workplace procedures and work health and safety (WHS) requirements
- perform GMAW using standard and inverter welding equipment, while controlling weld distortion, according to workplace procedures, applicable welding standards, and WHS requirements
- inspect welding using non-destructive testing procedures and identify and rectify faults
- clean welds and work area, and maintain and store welding equipment according to workplace procedures and WHS requirements
- complete GMAW work sheets.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- WHS requirements and workplace procedures relating to performing gas metal arc welding:
 - hazard identification and risk control methods
 - personal protective equipment (PPE)
- types of materials that can be welded using GMA welding
- types of GMAW electrodes and their application
- basic welding symbols
- procedures for setting up and operating GMAW equipment, including standard and inverter welders
- material preparation techniques for GMAW

- methods for identifying and repairing weld defects
- GMAW distortion control techniques
- GMAW test procedures, including non-destructive testing
- welding standards applicable to GMAW.

Assessment Conditions

Assessors must satisfy SNR/AQTF assessor requirements.

Competency is to be assessed in the workplace or a simulated environment that accurately reflects performance in a real workplace setting.

Where assessment of competency includes third-party evidence, individuals must provide evidence that links them to the gas metal arc welding operations that they have performed, e.g. production work sheets.

Assessors must verify performance evidence through questioning on skills and knowledge to ensure correct interpretation and application.

The following resources must be made available:

- automotive manufacturing workplace or simulated workplace
- work orders and job specifications
- applicable gas metal arc welding standards
- safe operating procedures and PPE relating to gas metal arc welding
- gas metal arc welding equipment
- consumables and materials for gas metal arc welding
- production work sheets for the welding job.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=bd587669-08b3-4cd5-85f0-f9fa0c6304c1>

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