



Australian Government

**Assessment Requirements for
AUMGTW001 Perform basic welding,
thermal cutting, heating and gouging**

Release: 2

AUMGTW001 Perform basic welding, thermal cutting, heating and gouging

Modification History

Release	Comment
Release 1	Unit updated to reflect the new standards for Training Packages Replaces AUMGTW3001 Conduct basic welding, thermal cutting, heating and gouging operations
Release 2	Updated for clarity and policy adherence

Performance Evidence

Before competency can be determined, individuals must have competently demonstrated basic welding, thermal cutting, heating and gouging operations; each on a minimum of three occasions.

Individuals must demonstrate they can:

- apply workplace requirements, procedures and workplace health and safety (WHS) practices in relation to:
 - weld production
 - work quality
- perform gas metal arc welding (GMAW) and manual metal arc welding (MMAW) processes
- perform oxy-acetylene welding processes
- perform thermal cutting, heating and gouging processes
- use relevant tools and equipment for the process
- check completed work against job specifications
- collect and store materials that can be reused
- clean work area and maintain equipment complete workplace documentation relating to basic welding, thermal cutting, heating and gouging operations.

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements and performance criteria of this unit. This includes:

- work health and safety (WHS) requirements in relation to basic welding, thermal cutting, heating and gouging work tasks, including personal protective equipment (PPE)
- types of welding rods and their application

- MMAW techniques
- GMAW techniques
- thermal cutting, heating and gouging techniques
- welding quality standards
- oxy-acetylene welding techniques

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 vehicles or components on which they have performed basic welding, thermal cutting, heating and gouging, 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
- vehicles or components that require basic welding, thermal cutting, heating and gouging operations
- WHS equipment, including PPE relating to basic welding, thermal cutting, heating and gouging
- workplace procedures, equipment and operating instructions relating to basic welding, thermal cutting, heating and gouging
- welding consumables and materials
- welding equipment and accompanying operating instructions, including:
 - gas metal arc welding (GMAW) equipment
 - manual metal arc welding (MMAW) equipment
 - oxy-acetylene plant and equipment
 - thermal cutting, heating and gouging equipment
- work sheets relating to basic welding, thermal cutting, heating and gouging operations.

Links

Companion Volume Implementation Guides are found in VETNet -

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