



Australian Government

AUMGTS002 Prepare materials for fabrication using manual processes

Release: 1

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Modification History

Release	Comment
Release 1	Unit updated to reflect the new standards for Training Packages Replaces AUMGTS3002 Prepare materials for fabrication using manual processes

Application

This unit describes the performance outcomes required to identify and prepare materials for fabrication using manual processes.

It applies to those in an automotive manufacturing environment and involves the application of skills and knowledge at a specialist level

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

Competency Field

Manufacturing - Bus, Truck and Trailer

Unit Sector

Technical - Fabrication

Elements and Performance Criteria

Elements	Performance Criteria
Elements describe the essential outcomes	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the range of conditions section
1. Plan and prepare	1.1 <i>Workplace procedures</i> are identified and followed 1.2 Job specifications, working drawings and <i>calculations</i> are identified and interpreted 1.3 Tools, equipment and resources are selected and inspected, and faults reported
2. Select fabrication	2.1 Fabrication materials are identified and prepared according to

Elements	Performance Criteria
materials	job specifications and working drawings 2.2 Defective materials are set aside for scrap or rework
3. Bend, shape and fabricate material	3.1 Bending, shaping and fabricating processes are applied according to job specifications and working drawings 3.2 Material distortion prevention measures are identified and applied according to job requirements 3.3 Bent, shaped and fabricated materials are checked against job specifications or working drawings
4. Complete the job	4.1 Work area is cleaned, and materials disposed of or recycled according to workplace procedures 4.2 Tools and equipment are cleaned, checked and stored according to workplace procedures 4.3 Faulty equipment is tagged and reported 4.4 Work sheets are completed according to workplace procedures

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance.

Skills	Description
Reading skills to:	interpret workplace procedures, work health and safety (WHS) requirements, job instructions and working drawings.
Writing skills to:	- prepare work plan - complete work sheets and production schedule documentation.
Numeracy skills to:	- count items and parts required for fabrication - adjust weld machine settings - calculate bend angles.
Planning and organising skills to:	plan daily production activities, equipment and work area.
Self-management skills to:	take responsibility for own work area.
Technology skills to:	operate workplace machines.

Range of Conditions

This section specifies 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. Bold italicised wording, if used in the performance criteria, is detailed below.

<i>Workplace procedures</i> must include:	• procedures for recording and reporting the preparation of materials for fabrication • use of tools and equipment required when preparing materials for fabrication using manual processes • WHS requirements for preparing materials for fabrication using manual processes • workplace quality standards relevant to preparing materials for fabrication using manual processes.
<i>Calculations</i> must include:	• loss and gain calculations on folded materials • volumes, area, circumference and perimeters relevant to preparing materials for fabrication using manual processes.

Unit Mapping Information

No equivalent unit.

Links

Companion Volume implementation guides are found in VETNet -

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

Assessment Requirements for AUMGTS002 Prepare materials for fabrication using manual processes

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Performance Evidence

Before competency can be determined, individuals must have competently used manual processes to prepare materials for fabrication on a minimum of two occasions.

Individuals must demonstrate they can:

- identify and apply job information and specifications
- interpret drawings and material lists for fabrication
- identify, select and mark out materials for fabrication according to job specifications
- manually prepare materials for fabrication according to workplace procedures and work health and safety (WHS) requirements
- fabricate common automotive components using manual processes according to workplace procedures and WHS requirements
- complete workplace documentation relating to preparing materials for fabrication using manual processes
- maintain a clean and safe work area.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- WHS requirements relating to preparing materials for fabrication using manual processes
- methods of interpreting fabrication requirements from drawings and material lists
- procedures for preparing materials for fabrication
- types of fabrication tools and equipment and their application and operation
- fabrication processes using manual processes for common automotive components
- common automotive manufacturing parts and assembly faults
- handling and storage procedures of automotive manufacturing materials.

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 materials that they have prepared for fabrication using manual processes, e.g. fabrication 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
- working drawings and specifications of components that require materials for manufacturing
- tools and equipment relevant to preparing materials for fabrication using manual processes
- personal protective equipment (PPE) relevant to the manual processes in use
- lifting equipment relevant to the fabrication material.

Links

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