



Australian Government

AUMGTS004 Fabricate parts for vehicle sub-assemblies

Release: 1

AUMGTS004 Fabricate parts for vehicle sub-assemblies

Modification History

Release	Comment
Release 1	Unit updated to reflect the new standards for Training Packages Replaces AUMGTS3004 Fabricate parts for sub-assemblies

Application

This unit describes the performance outcomes required to produce, finish and test parts and components for vehicle sub-assemblies.

It applies to those in an automotive manufacturing environment and involves the application of skills and knowledge at a production worker 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 Work orders, job specifications and drawings are identified and confirmed 1.2 Tools, equipment and materials are identified, selected and prepared according to work order and job specification 1.3 Materials are inspected for quality, and defects identified and reported 1.4 Welding equipment is selected, inspected, tested and adjusted according to job requirements

Elements	Performance Criteria
2. Weld components	2.1 Components are welded as identified in working drawings according to workplace procedures 2.2 Welds are completed to workplace quality standards and weld specifications 2.3 Welded parts are checked against job specifications 2.4 Weld faults are identified and rectified according to workplace procedures
3. Assemble and finish sub-assemblies	3.1 Sub-assemblies are completed and checked against job specification 3.2 Sub-assembly fasteners are tensioned to specifications 3.3 Seals, adhesives and sealants are applied to ensure joints are leak free
4. Complete work processes	4.1 Final inspections are made and faulty sub-assemblies are reworked in line with workplace procedures 4.2 Tools, equipment and work areas are cleaned, maintained, and inspected according to workplace procedures 4.3 Waste material is collected and recycled or disposed of according to workplace procedures 4.4 Faulty equipment is identified, tagged and reported according to workplace procedures 4.5 Work job sheets are completed and reported to supervisor

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, work orders, job specifications and drawings - interpret equipment operating procedures and work instructions.
Numeracy skills to:	- identify part numbers and quantities - interpret job specification measurements - set welding equipment - use measuring equipment.
Writing skills to:	- complete faulty equipment tags - legibly complete production documents.
Oral communication skills	inform team members of suitable fabrication sequence and

to:	methods.
Planning and organising skills to:	- select and prepare equipment, materials and work area - fabricate parts for sub-assemblies within required timelines.
Problem-solving skills to:	access, interpret and apply work orders and work instructions.
Teamwork skills to:	work as part of a production team.

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 fabrication of parts for vehicle sub-assemblies - use of tools and equipment for fabricating parts for vehicle sub-assemblies - WHS requirements for fabricating parts for vehicle sub-assemblies - workplace quality standards relevant to fabricating parts for vehicle sub-assemblies.
<i>Quality standards</i> must include:	- component fit and finish of fabricated parts for vehicle sub-assemblies - weld quality of fabricated parts for vehicle sub-assemblies.

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 AUMGTS004 Fabricate parts for vehicle sub-assemblies

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Performance Evidence

Before competency can be determined, individuals must have competently fabricated parts for sub-assemblies on a minimum of two occasions.

Individuals must demonstrate they can:

- locate, interpret and apply fabrication information and specifications
- use tools, equipment and welding equipment safely
- fabricate parts for sub-assemblies according to workplace procedures and work health and safety (WHS) requirements
- follow work instructions and production schedules when fabricating parts for vehicle sub-assemblies
- use inspection and checking processes and identify faulty parts of vehicle sub-assemblies.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- WHS requirements relevant to fabricating vehicle sub-assemblies
- types of vehicle sub-assemblies and their components
- original equipment manufacturer operating procedures
- component fabrication alignment procedures
- welding types and techniques for fabricating vehicle sub-assemblies
- assembly procedures of vehicle sub-assemblies.

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 vehicle sub-assemblies that they have fabricated, 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 instructions for fabricating vehicle sub-assemblies
- vehicle sub-assembly components
- vehicle sub-assembly specifications
- tools, equipment and welding equipment relevant to fabricating vehicle sub-assemblies.

Links

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