



Australian Government

AUMGTY003 Modify and repair chassis and frames

Release: 1

AUMGTY003 Modify and repair chassis and frames

Modification History

Release	Comment
Release 1	Unit updated to reflect the new standards for Training Packages Replaces AUMGTY3003 Modify or rectify chassis and frame and associated components

Application

This unit describes the performance outcomes required to modify, repair and align chassis and frame components.

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

Licensing, legislative, regulatory or certification requirements may apply to this unit in some jurisdictions. Users are advised to check with the relevant regulatory authority.

Competency Field

Manufacturing - Bus, Truck and Trailer

Unit Sector

Technical - Chassis and Frame

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. Inspect vehicle	1.1 Inspection activities are carried out according to <i>workplace procedures</i> 1.2 Chassis or frame is measured and inspected to determine modification or repair requirements 1.3 Inspection report and work plan are prepared during inspection
2. Modify, repair and align	2.1 Vehicle specifications are identified and interpreted according

Elements	Performance Criteria
chassis or components	to original equipment manufacturer (OEM) specifications and regulatory requirements 2.2 Tools and equipment are selected and checked for correct operation, and identified faults reported 2.3 Chassis or frame is modified or repaired and then aligned according to job sheet and work order
3. Complete work processes	3.1 Completed work is checked against job sheet and OEM specifications 3.2 Work areas, tools and equipment are cleaned and stored according to workplace procedures 3.3 Work forms and final inspection reports are completed and submitted to appropriate personnel

Foundation Skills

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

Skills	Description
Reading skills to:	- interpret job requirements from work plan and OEM specifications - interpret inspection reports and job sheets.
Writing skills to:	- legibly prepare work plans - complete final inspection reports.
Numeracy skills to:	- identify component part numbers and amounts - interpret measurements from OEM specifications - identify and set equipment.
Planning and organising skills to:	- select and prepare equipment, materials and work area - complete job within required timelines.
Self-management skills to:	take responsibility for organising work role and priorities.
Technology skills to:	- use chassis or frame measuring systems - use induction heating equipment.

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:	• OEM specifications and regulatory requirements • recording and reporting requirements • tools and test equipment • work health and safety (WHS) requirements • workplace instructions.
<i>Tools and equipment</i> must include:	• chassis alignment equipment • clamps, bracing and jiggling systems • hand and power tools • measuring equipment • welding, cutting and heating equipment.

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 AUMGTY003 Modify and repair chassis and frames

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Performance Evidence

Before competency can be determined, individuals must have competently modified and repaired a chassis and frame on a minimum of one occasion.

Individuals must demonstrate they can:

- follow workplace procedures and work health and safety (WHS) requirements when modifying and repairing chassis and frames
- maintain a working knowledge of vehicle chassis and components
- identify faults and non-conformance of vehicle components and systems against original equipment manufacturer (OEM) specifications
- modify and repair chassis and frame components, which must include cutting and joining as well as straightening the chassis
- identify workplace quality standards relating to modifying and repairing chassis and frames
- use workplace equipment when modifying and repairing chassis and frames
- follow safe work practices when modifying and repairing chassis and frames
- complete repair and inspection reports relating to modified and repaired chassis and frames.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- WHS requirements and workplace procedures relating to modifying and repairing chassis and frames
- workplace documentation relating to modified and repaired chassis and frames:
 - OEM specifications
 - Vehicle Standards Bulletin 6 (VSB6) National Code of Practice – Heavy Vehicle Modifications
 - inspection and testing procedures

- work instructions
- fault indicators
- retesting and release processes
- work plans
- types of vehicle chassis and frames
- inspection and measuring techniques of chassis and frames
- chassis and frame alignment techniques
- modification and repair requirements of chassis and frames
- cutting and welding procedures of chassis and frames.

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 on which they have worked, e.g. repair orders.

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
- chassis and frames
- OEM specifications to modify and repair chassis and frames
- tools and equipment required to modify and repair chassis and frames
- workplace inspection and testing procedures relating to the modification and repair of chassis and frames
- WHS equipment relating to the modification and repair of chassis and frames
- workplace documentation, including job sheets, relating to the modification and repair of chassis and frames.

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