



Australian Government

AUM8101B Modify or rectify chassis/frame and associated components

Revision Number: 1

AUM8101B Modify or rectify chassis/frame and associated components

Modification History

Not applicable.

Unit Descriptor

Unit descriptor	This unit describes the application of the required skills and knowledge to modify or rectify and align chassis/frame and/or components applicable to vehicles with separate frame construction. No licensing, legislative, regulatory or certification requirements apply to this unit at the time of publication.
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Application of the Unit

Application of the unit	This unit applies to the automotive and related component manufacturing environment and involves application of skills and knowledge at a <i>specialist</i> level. These skills and knowledge are to be used within the scope of the person's job and authority.
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Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Prerequisite units		
	Nil	Nil
	Nil	Nil

Employability Skills Information

Employability skills	This unit contains Employability Skills.
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Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.	Performance criteria describe the required performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge and/or the range statement. Assessment of performance is to be consistent with the evidence guide.
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Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Inspect to determine modification/rectification required	1.1. Inspection activities are carried out according to OHS and organisation requirements 1.2. Chassis / frame is measured and inspected to establish modification requirements 1.3. Written inspection report prepared during inspection
2. Replace or rectify components	2.1. Correct information is accessed and interpreted from appropriate manufacturer specifications 2.2. Replacement or rectification of components is achieved using appropriate tools and equipment without causing damage to any workplace property or vehicle section, system or component 2.3. Rectification and replacements of chassis/frame components are carried out in accordance with vehicle manufacturer specifications and tolerances relative to the vehicle 2.4. Work done is recorded and dealt with according to organisation policies and procedures
3. Align and modify chassis/frame	3.1. Information relating to modification processes is accessed and interpreted from appropriate manufacturer specifications 3.2. Alignment / modification procedures for the chassis are carried out in accordance with manufacturer specifications and tolerances 3.3. Work done is recorded and dealt with according to organisation policies and procedures

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

This section describes the essential skills and knowledge and their level, required for this unit.

Required skills

- speak clearly and directly in order to inform team members of work completed
- apply teamwork to a range of situations
- solve problems particularly in teams in order to meet performance indicators
- show initiative in adapting to changing work conditions or contexts particularly when working across a variety of work areas
- access, interpret and apply information on relevant organisation policies, procedures and instructions, particularly to ensure accurate alignments are made using appropriate alignment equipment
- manage time when planning, preparing and organising work priorities
- take responsibility for organising own work priorities.

Required knowledge

- relevant Occupational Health and Safety and Environmental regulations and organisation policies and procedures needed to carry out work in a manner which ensures the safety of people, equipment and the environment.
- technical work documentation covering procedures, specifications, schedules and work plans or equivalent
- alignment procedures
- inspection and measuring procedures
- repair/replacement of components procedures
- vehicle safety requirements
- relevant manufacturer/organisation policies
- use of lifting and transportation equipment
- manual handling techniques
- visual, aural and functional assessments (including damage, wear and breakage)
- wheel and chassis alignment geometry
- cutting and welding procedures

Evidence Guide

EVIDENCE GUIDE

The Evidence Guide provides advice on assessment and must be read in conjunction with the Performance Criteria, Required Skills and Knowledge, the Range Statement and the Assessment Guidelines for this Training Package.

Overview of assessment

Critical aspects for assessment and evidence required to demonstrate competency in this unit

Evidence of the following is essential:

- Compliance with relevant legislative, regulations, standards, codes of practice and establish safe practices and organisation policies and procedures for managing personal work priorities
- Maintaining a working knowledge of current work systems and practices
- Working and communicating effectively and positively with others involved in the work
- Applying, within authority, the requirements of the job or work role in relation to:
 - achieving production goals
 - achieving work quality goals
 - responding positively to changing work requirements
- contributing effectively to cost reduction initiatives
- effectively applying problem solving techniques
- Modify activities to cater for variations in organisation context and environment

Context of and specific resources for assessment

- assessment of the competency should take place in a safe working environment in a passenger motor vehicle manufacturing plant or simulated environment using tools/equipment/machinery required for the production process without undue disruption to the production process
- assessment is to occur under standard and authorised work practices, safety requirements and environmental constraints.

Method of assessment

A range of assessment methods should be used to assess practical skills and knowledge. The following examples are appropriate for this unit:

- assessment methods must confirm consistency and accuracy of performance (over time and in a range of organisation relevant contexts) together with application of underpinning knowledge

EVIDENCE GUIDE

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| | <ul style="list-style-type: none">• assessment methods must be by direct observation of tasks and include questioning on underpinning knowledge to ensure its correct interpretation and application• assessment may be applied under project related conditions (real or simulated) and require evidence of process• assessment must confirm a reasonable inference that competency is able not only to be satisfied under the particular circumstance, but is able to be transferred to other circumstances. |
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Range Statement

RANGE STATEMENT

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording in the Performance Criteria is detailed below. Add any essential operating conditions that may be present with training and assessment depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts.

OHS requirements may include:

Legislation and regulations, organisational safety policies and procedures and may include: the use of personal protective equipment and clothing, rescue services, fire fighting organisation and equipment, first aid equipment, hazard and risk control and elimination, systems covering the use of hazardous materials and substances and manual handling procedures including lifting and carrying.

Organisation requirements may include:

- access and equity principles and practices
- environmental management (waste disposal, recycling and re-use guidelines)
- emergency and evacuation procedures
- equipment use procedures
- ethical standards
- legal obligations
- maintenance and storage procedures
- OHS requirements
- organisational and site guidelines
- policies and procedures relating to own role and responsibility
- procedural manuals
- quality assurance guidelines
- quality and continuous improvement processes and standards
- recording and reporting guidelines.

Tools and equipment may include:

- hand tools, power tools, special tools for removal/alignment
- measuring equipment, pressing equipment, heating equipment, welding equipment (ARC, OXY, MIG, TIG), chassis aligning equipment - measuring, clamping, bracing, jigs.

Unit Sector(s)

Unit sector	Automotive Manufacturing
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Competency field

Competency field	Truck/Bus/Trailer Manufacture and Assembly
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Co-requisite units

Co-requisite units		
	Nil	Nil
	Nil	Nil