



**Australian Government**

**Department of Education, Employment and Workplace Relations**

# **AUM8087B Assemble and install hydraulic system kit**

**Revision Number: 1**

## AUM8087B Assemble and install hydraulic system kit

### Modification History

Not applicable.

### Unit Descriptor

|                        |                                                                                                                                                                                                                                                             |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Unit descriptor</b> | <p>This unit describes the application of skills and knowledge required to assemble, install and test a hydraulic system kit.</p> <p>No licensing, legislative, regulatory or certification requirements apply to this unit at the time of publication.</p> |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Application of the Unit

|                                |                                                                                                                                                                                                                                                                         |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Application of the unit</b> | <p>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.</p> |
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### Licensing/Regulatory Information

Not applicable.

### Pre-Requisites

|                           |     |
|---------------------------|-----|
| <b>Prerequisite units</b> | Nil |
|---------------------------|-----|

## Employability Skills Information

|                             |                                          |
|-----------------------------|------------------------------------------|
| <b>Employability skills</b> | This unit contains Employability Skills. |
|-----------------------------|------------------------------------------|

## 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. |
|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Elements and Performance Criteria

| ELEMENT                                      | PERFORMANCE CRITERIA                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Plan the job                              | <p>1.1. Appropriate practices are identified and followed in accordance with <b><i>OHS policy</i></b>, standard operating procedures <b><i>legislative</i></b> and <b><i>organisation requirements</i></b></p> <p>1.2. Tools and equipment are selected to meet job requirements</p> <p>1.3. Tools and equipment are checked to ensure they are in working order</p> <p>1.4. Assembly and installation <b><i>information</i></b> is accessed and interpreted from manufacturer specifications</p> |
| 2. Assemble and install hydraulic system kit | <p>2.1. Hydraulic system kit is assembled in accordance with manufacturers specifications</p> <p>2.2. Installation procedures are carried out in accordance with manufacturer specifications and tolerances</p>                                                                                                                                                                                                                                                                                   |
| 3. Test hydraulic systems                    | <p>3.1. Test information is accessed and interpreted from manufacturer specifications</p> <p>3.2. System tests before or after installation are carried out in accordance with manufacturer specifications and tolerances</p>                                                                                                                                                                                                                                                                     |

## 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 maintain teamwork
- 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 safety and compliance
- 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 enterprise policies and procedures needed to carry out work in a manner which ensures the safety of people, equipment and the environment. The specific regulations will vary according to the area of operation
- enterprise technical work documentation covering procedures, specifications, schedules and work plans or equivalent
- enterprise quality system documentation covering instructions, procedures, performance indicators and review processes or equivalent
- enterprise cost minimisation/waste avoidance policies, procedures and practices
- environmental protection requirements relating to the disposal of waste material
- established communication channels and protocols
- problem identification and resolution techniques
- relevant technical information including graphical symbols
- design and sketch hydraulic circuitry diagrams
- types of hydraulic fluids and their application
- equipment safety requirements
- hydraulic system operating principles
- hydraulic systems/component installation and test procedures
- construction and operation of hydraulic systems relevant to application
- manual handling techniques
- aural, visual and functional assessments (including damage, corrosion, fluid levels, leaks, tests, wear and safety aspects).

## 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 enterprise 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 workplace context and environment
- assemble hydraulic system/components
- install hydraulic system/components
- test hydraulic system
- use relevant tools and equipment
- apply manual handling techniques
- employ company OH&S procedures.

#### 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

| EVIDENCE GUIDE              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                             | environmental constraints.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Method of assessment</b> | <p>A range of assessment methods should be used to assess practical skills and knowledge. The following examples are appropriate for this unit:</p> <ul style="list-style-type: none"><li>• assessment methods must confirm consistency and accuracy of performance (over time and in a range of workplace relevant contexts) together with application of underpinning knowledge</li><li>• assessment methods must be by direct observation of tasks and include questioning on underpinning knowledge to ensure its correct interpretation and application</li><li>• assessment may be applied under project related conditions (real or simulated) and require evidence of process</li><li>• 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.</li></ul> |

## 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.

***Legislative requirements*** and procedures may include:

Applicable legislation, regulations and codes of practice, including those related to:

- anti-discrimination
- award and enterprise agreements
- confidentiality and privacy
- duty of care
- employee relations
- environment protection
- equal opportunity
- industrial relations
- relevant industry codes of practice.

***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

| RANGE STATEMENT                 |                                                                                                                                                                                                                                                                                                                                     |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                 | <ul style="list-style-type: none"><li>• quality and continuous improvement processes and standards</li><li>• recording and reporting guidelines.</li></ul>                                                                                                                                                                          |
| <b>Information</b> may include: | <ul style="list-style-type: none"><li>• vehicle/manufacturer specifications</li><li>• product manufacturer specifications</li><li>• company operating procedures</li><li>• industry/workplace codes of practise</li><li>• customer requirements</li><li>• Statutory legislation</li><li>• State/industry OHS legislation.</li></ul> |

## Unit Sector(s)

|             |                          |
|-------------|--------------------------|
| Unit sector | Automotive Manufacturing |
|-------------|--------------------------|

## Competency field

|                  |                                            |
|------------------|--------------------------------------------|
| Competency field | Truck/Bus/Trailer Manufacture and Assembly |
|------------------|--------------------------------------------|

## Co-requisite units

|                    |     |
|--------------------|-----|
| Co-requisite units | Nil |
|--------------------|-----|