



**Australian Government**

# **AUMATK007 Install vehicle plant, equipment and systems**

**Release: 1**

# AUMATK007 Install vehicle plant, equipment and systems

## Modification History

| Release   | Comment                                                                                                                    |
|-----------|----------------------------------------------------------------------------------------------------------------------------|
| Release 1 | Unit updated to reflect the new standards for Training Packages<br>Replaces AUMATK4007 Install plant, equipment or systems |

## Application

This unit describes the performance outcomes required to install the plant, equipment and systems required for the design, development and production of motor vehicles.

It applies to those in an automotive manufacturing environment.

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

## Competency Field

Common

## Unit Sector

Technical - Tools and Equipment

## 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. Prepare for installation              | <p>1.1 Installation <b><i>instructions</i></b> and work plans are identified and confirmed with appropriate personnel and <b><i>installation requirements</i></b> are determined</p> <p>1.2 Parts, plant and equipment required for installation are obtained according to workplace procedures and within scope of responsibilities</p> <p>1.3 <b><i>Workplace procedures</i></b> for installing vehicle plant, equipment and systems are identified</p> <p>1.4 Work site is prepared according to installation plan and</p> |

| Elements                 | Performance Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                          | <p>requirements of the manufacturer of the component parts, plant and equipment</p> <p>1.5 Compliance of prepared work site with design drawings, work specifications, and work health and safety (WHS) requirements is determined</p>                                                                                                                                                                                                                                            |
| 2. Conduct installation  | <p>2.1 Pre-installation of parts, plant, equipment, fixtures and additional low voltage wiring is completed according to the installation plan and work specifications</p> <p>2.2 Parts, plant, equipment, fixtures and additional low voltage wiring are installed according to installation plan and work specifications</p> <p>2.3 Parts, plant, equipment, fixtures and additional low voltage wiring installations are checked against technical and safety requirements</p> |
| 3. Finalise installation | <p>3.1 Installation is checked against design specifications, workplace quality standards, manufacturer instructions and WHS requirements</p> <p>3.2 Installation faults are reported and rectified according to workplace procedures</p> <p>3.3 Installation reports are completed according to workplace procedures</p>                                                                                                                                                         |

## Foundation Skills

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

| Skills                        | Description                                                                                                                                                                                                                      |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reading skills to:            | <ul style="list-style-type: none"> <li>interpret WHS requirements and workplace procedures for installing vehicle plant, equipment and systems</li> <li>interpret work plans, installation plans and design drawings.</li> </ul> |
| Writing skills to:            | <ul style="list-style-type: none"> <li>complete installation reports</li> <li>complete inventory lists.</li> </ul>                                                                                                               |
| Oral communication skills to: | <ul style="list-style-type: none"> <li>discuss and clarify project plan with production team</li> <li>discuss installation timetable, resource and personnel requirements.</li> </ul>                                            |
| Numeracy skills to:           | <ul style="list-style-type: none"> <li>interpret vehicle specifications</li> <li>calculate material requirements</li> <li>identify installation measurements.</li> </ul>                                                         |

|                                    |                                                                                                                                                                                                                                   |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Initiative skills to:              | <ul style="list-style-type: none"><li>• adapt to changing work conditions or contexts.</li></ul>                                                                                                                                  |
| Planning and organising skills to: | <ul style="list-style-type: none"><li>• set up installation processes and procedures</li><li>• ensure installations are completed on time and to specifications</li><li>• prepare work site for equipment installation.</li></ul> |

## 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.

|                                                       |                                                                                                                                                                                                                                                                                                           |
|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b><i>Instructions</i></b> must include:              | <ul style="list-style-type: none"><li>• installation and work plans</li><li>• job sheets, job specifications and design drawings</li><li>• manufacturer instructions for the use of equipment and materials</li><li>• work plans</li><li>• workplace procedures to install plant and equipment.</li></ul> |
| <b><i>Installation requirements</i></b> must include: | <ul style="list-style-type: none"><li>• physical resources</li><li>• staffing.</li></ul>                                                                                                                                                                                                                  |
| <b><i>Workplace procedures</i></b> must include:      | <ul style="list-style-type: none"><li>• quality and continuous improvement programs</li><li>• recording and reporting installation outcomes</li><li>• WHS requirements.</li></ul>                                                                                                                         |

## 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 AUMATK007 Install vehicle plant, equipment and systems

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## Performance Evidence

Before competency can be determined, individuals must have competently installed plant, equipment and systems on a minimum of two occasions.

Individuals must demonstrate they can:

- follow workplace installation procedures of vehicle plant, equipment and systems
- maintain knowledge of workplace inventory processes of vehicle plant, equipment and systems
- install plant, equipment and systems safely, in line with work health and safety (WHS) requirements
- prepare and test installed plant, equipment and system
- complete installation forms relating to testing vehicle plant, equipment and systems
- achieve work quality goals when testing vehicle plant, equipment and system.

## Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- WHS requirements and workplace procedures relating to installing vehicle plant, equipment and systems
- methods for installing vehicle plant, equipment and systems
- vehicle plant installation plans and design drawings
- types of tools and equipment and their operating procedures
- problem identification and resolution techniques
- workplace recording and reporting documentation.

## 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 plant, equipment and systems they have installed, e.g. work 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
- tools, plant, equipment and system required in the installation process
- workplace documentation:
  - design drawings
  - fault reports
  - installation plans
  - inventory lists
  - vehicle specifications
  - work instructions
- workplace procedures for installing plant and equipment.

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