



Australian Government

AURETR049 Install in-vehicle entertainment and convenience

Release: 1

AURETR049 Install in-vehicle entertainment and convenience

Modification History

Release	Comments
Release 1	This version first released with the Automotive Retail, Service and Repair Training Package Version 7.0. Newly created unit.

Application

This unit describes the skills and knowledge required to safely install in-vehicle entertainment and convenience systems. It involves preparing for the task, selecting and installing entertainment and convenience systems, testing system functionality and completing workplace documentation.

It applies to those who undertake routine installation tasks in the automotive sector and repair industry.

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

Unit Sector

Technical - Electrical and Electronic

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Prepare to install, in-vehicle entertainment and convenience systems	1.1 Determine job requirements according to workplace instructions 1.2 Access and interpret original equipment manufacturer (OEM) specifications and workplace procedures 1.3 Identify installation option according to the identified job requirements 1.4 Identify hazards and environmental issues associated with work tasks, assess potential risks and implement control measures according to workplace policies and procedures 1.5 Select components of in-vehicle entertainment and

	convenience systems according to job requirements 1.6 Check tools and equipment for serviceability
2. Install and test system	2.1 Install in-vehicle entertainment and convenience systems according to manufacturer specifications, workplace procedures and safety requirements 2.2 Conduct post-installation testing of system functionality and rectify faults where required according to workplace policies and procedures 2.3 Conduct final inspection and confirm vehicle is ready for use according to road safety standards
3. Complete work processes	3.1 Clean work area, collect recyclable material and dispose of waste and non-recyclable materials 3.2 Store tools and equipment according to workplace procedures 3.3 Document installation and testing process according to workplace procedures

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

Skill	Description
Learning	locates required sources of information efficiently
Numeracy	- matches materials and component part numbers to work instructions and component part lists - measures voltage using basic arithmetic operations
Oral communication	clarifies instructions, determine work requirements, report findings, and seek feedback
Reading	- interprets information from manufacturer and workshop policies when seeking specifications and procedures - interprets workplace policies and procedures - interprets text, symbols and diagrams of in-vehicle entertainment and convenience systems in manufacturer specifications, fitting instructions and workplace procedures
Writing	legibly and accurately fills out workplace documentation for reports and records
Planning and organising	plans own work requirements and prioritises actions to achieve required outcomes and ensure tasks are completed within workplace timeframes

Technology	• uses specialised workplace technology, equipment and tools
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Unit Mapping Information

Newly created unit.

Links

Companion Volume Implementation Guide is found on VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b4278d82-d487-4070-a8c4-78045ec695b1>

Assessment Requirements for AURETR049 Install in-vehicle entertainment and convenience

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Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- install two different in-vehicle entertainment and convenience systems into two different vehicles

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- work health and safety (WHS) requirements relating to installing in-vehicle entertainment and convenience systems, including those relating to:
 - using specialised tools and equipment
 - selecting and using personal protective equipment (PPE)
 - identifying hazards and controlling risks
- key specialised technologies, tools and equipment associated with in-vehicle entertainment and convenience systems, including:
 - amplifiers and speakers
 - crimpers
 - digital multimeters
 - soldering irons
 - wire strippers
- system functionality testing procedures and tools used for installing in-vehicle entertainment and convenience systems, including:
 - digital multimeter and scan tool
 - electrical equipment testing
 - system operations
 - wiring diagrams

- vehicle continuous and non-continuous monitored systems
- workplace policies and procedures required to install in-vehicle convenience and entertainment systems, including:
 - serviceability of tools and equipment
 - techniques to operate, examine and store specialised technologies, tools and equipment
 - documentation processes including tagging of faulty equipment
 - safe disposal and recycling procedures for materials
- key features of in-vehicle convenience, entertainment and safety systems, including:
 - advanced driver-assistance systems (ADAS)
 - connectivity systems
 - electronic control units (ECUs)
 - fibre-optic communication systems
 - infotainment systems
 - intelligent transport systems
 - multi-plex systems
 - passenger comfort systems
 - safety restraint systems
 - telematics systems
 - vehicle tracking systems
- key theories and principles of system installation procedures including:
 - Controller Area Network (CAN)-bus
 - electrical
 - Local Interconnect Network (LIN) bus
 - OHM's law
 - vehicle body operations.

Assessment Conditions

Competency is to be assessed in the workplace or a simulated environment that accurately reflects performance in a real workplace setting.

Assessment must include direct observation of tasks.

Where assessment of competency includes third-party evidence, individuals must provide evidence that links them to the installation of in-vehicle entertainment and convenience systems, 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:

- workplace instructions, policies and procedures
- manufacturer specifications and installation fitting instructions

- two different vehicles requiring the installation of in-vehicle convenience and entertainment systems
- tools, equipment and materials appropriate for installing in-vehicle convenience and entertainment systems
- PPE required to install in-vehicle convenience and entertainment systems.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

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