



Australian Government

AURETR121 Diagnose, repair and replace heavy vehicle electronic management, monitoring and tracking systems

Release: 1

AURETR121 Diagnose, repair and replace heavy vehicle electronic management, monitoring and tracking systems

Modification History

Release	Comments
Release 1	This version first released with the Automotive Retail, Service and Repair Training Package Version 7.0. Supersedes and is equivalent to AURETR021 Diagnose, repair and replace electronic management, monitoring and tracking systems.

Application

This unit describes the skills and knowledge required to diagnose, repair and replace electronic management, monitoring and tracking systems fitted to heavy vehicles or machinery. It involves preparing for the task, inspecting the systems and circuits, servicing, repairing and replacing, and testing the systems and completing workplace finalisation processes and documentation.

It applies to individuals who work in the heavy vehicle service and repair industry and service and repair electronic management, monitoring and tracking systems including those in heavy vehicles or mobile plant machinery.

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 diagnose, repair and replace electronic management, monitoring and tracking system	1.1 Identify job requirements from workplace instructions 1.2 Identify information required for inspection, servicing, repair and replacement activities from customers and supervisors 1.3 Identify hazards and environmental issues associated

	with the activity, assess potential risks and implement control measures in line with workplace policies and procedures 1.4 Identify tools and electrical equipment required for diagnosis and establish serviceability according to workplace procedures
2. Diagnose electronic management, monitoring and tracking system	2.1 Implement diagnostic tests according to manufacturer and workplace procedures, and workplace health and safety requirements 2.2 Analyse diagnostic test results and identify cause of fault 2.3 Confirm and report cause of fault to supervisor according to workplace procedures 2.4 Develop and report recommendations for necessary repairs according to workplace procedures
3. Repair and replace electronic management, monitoring and tracking system	3.1 Identify information required for repair and replacement activity 3.2 Identify required tools, equipment and materials required for repair and replacement activity and establish serviceability according to workplace procedures 3.3 Carry out repairs and replacement according to workplace and manufacturer procedures, manufacturer component specifications, workplace health and safety and environmental requirements 3.4 Carry out post-repair and replacement testing according to workplace procedures, workplace health and safety and environmental requirements
4. Complete work processes	4.1 Conduct final inspection according to workplace procedures and confirm vehicle has safety features and cowlings in place and systems are ready for use 4.2 Clear work area and dispose of or recycle materials according to workplace procedures 4.3 Check tools and equipment and tag and isolate any faulty electrical equipment identified according to workplace procedures 4.4 Complete documentation 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 develops a sequenced plan for a specific task
Reading	interprets text, symbols and wiring diagrams in manufacturer specifications and workplace procedures
Writing	completes workplace documentation when reporting diagnostic findings, making repair recommendations, and recording parts and material used
Oral communication	- clarifies instructions - obtains information from customers and supervisors - reports inspection findings to supervisors
Numeracy	- matches electrical components and part identification numbers to workplace instructions and component part lists, and manufacturer specifications - reads and interprets vehicle electrical measurements and readings on digital and analogue gauges - calculates deviations from manufacturer specifications
Planning and organising	- plans own work requirements - prioritises actions and achieves required outcomes - completes tasks within workplace timeframes
Technology	uses specialised diagnostic equipment

Unit Mapping Information

Supersedes and is equivalent to AURETR021 Inspect, service and repair electronic management, monitoring and tracking systems.

Links

Companion Volume Implementation Guides is found on VETNet -

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