



Australian Government

AURTTA118 Develop and carry out diagnostic test strategies

Release: 1

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Modification History

Release	Comments
Release 1	This version first released with AUR Automotive Retail, Service and Repair Training Package Version 6.0

Application

This unit describes the skills and knowledge required to develop and carry out a diagnostic testing strategy on vehicles, vessels or machinery. It involves confirming the existence of a fault, identifying the required diagnostic information, developing a diagnostic strategy, applying the diagnostic strategy, and reporting conclusions.

The unit applies to those who work in the automotive service and repair industry.

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

Unit Sector

Mechanical Miscellaneous – Technical

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. Develop diagnostic testing strategy	1.1 Identify job requirements from workplace instructions 1.2 Confirm existence of fault according to workplace procedures 1.3 Identify systems and components to be tested 1.4 Obtain and interpret information required to develop diagnostic testing strategy 1.5 Develop testing strategy to identify cause of fault 1.6 Identify hazards and environmental issues associated with diagnose and repair activity, assess potential risks and implement control measures in line with workplace policies and procedures
2. Diagnose faults	2.1 Identify tools and equipment required for testing strategy

ELEMENT	PERFORMANCE CRITERIA
	<p>and establish serviceability according to workplace procedures</p> <p>2.2 Identify cause of fault through analysis of diagnostic test results.</p> <p>2.3 Confirm and report cause of fault according to workplace procedures</p> <p>2.4 Develop and report recommendations for necessary repairs according to workplace procedures</p>
3. Complete work processes	<p>3.1 Conduct final inspection according to workplace procedures and confirm vehicle is ready for use</p> <p>3.2 Clear work area and dispose of or recycle materials according to workplace procedures</p> <p>3.3 Complete documentation according to workplace procedures</p>

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	<ul style="list-style-type: none"> • Locates required sources of information efficiently • Develops a sequenced plan for a specific task • Applies diagnostic procedures to different vehicles or machinery • Interprets diagnostic test results and comments on usefulness of outputs in determining cause of fault
Reading	<ul style="list-style-type: none"> • Researches, organises and interprets technical information from manufacturer and workshop literature when seeking specifications and procedures
Oral communication	<ul style="list-style-type: none"> • Clarifies instructions • Obtains information from customers and/or supervisors • Reports diagnostic findings
Numeracy	<ul style="list-style-type: none"> • Measures components and uses basic mathematical operations, including addition and subtraction, to calculate tolerances and deviations from manufacturer specifications
Planning and organising	<ul style="list-style-type: none"> • Plans own work requirements • Prioritises and sequences actions to achieve required outcomes • Ensures tasks are completed within workplace timeframes

SKILL	DESCRIPTION
Technology	<ul style="list-style-type: none">• Uses precision measuring equipment• Uses specialised diagnostic equipment

Unit Mapping Information

Supersedes and is equivalent to AURTTA018 Carry out diagnostic procedures.

Links

Companion Volume Implementation Guide is found on VETNet -

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