

AURTTL102 Diagnose and repair CNG fuel systems

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 diagnose and repair faults in the compressed natural gas (CNG) fuel systems of vehicles or machinery. The unit involves preparing for the task, sourcing a diagnostic testing strategy, diagnosing the cause of the fault, carrying out the repair, performing post-repair testing, and completing workplace processes and documentation.

The unit applies to those who work in the automotive service and repair industry. The CNG fuel systems include those in agricultural machinery, heavy commercial vehicles, light vehicles or mobile plant machinery.

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

Unit Sector

Mechanical Miscellaneous Technical - Alternative Fuels

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Prepare to diagnose and repair CNG fuel system	1.1 Identify job requirements from workplace instructions 1.2 Identify required information for diagnosis activity 1.3 Analyse diagnostic options and source testing strategy to identify cause of fault using workplace and manufacturer procedures
	1.4 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

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ELEMENT	PERFORMANCE CRITERIA
	1.5 Identify tools and equipment required for testing strategy and establish serviceability according to workplace procedures
2. Diagnose CNG fuel system	2.1 Implement diagnostic tests set out in testing strategy according to manufacturer and workplace procedures, and workplace health and safety requirements2.2 Identify cause of fault through analysis of diagnostic test results
	2.3 Confirm and report cause of fault according to workplace procedures2.4 Develop and report recommendations for necessary repairs according to workplace procedures
3. Repair CNG fuel	3.1 Identify required information for repair activity
system	3.2 Identify tools, equipment and materials required for repair activity and establish serviceability according to workplace procedures
	3.3 Carry out repairs according to workplace and manufacturer procedures, manufacturer specifications, Australian Standards, workplace health and safety and environmental requirements
	3.4 Carry out post-repair testing according to workplace procedures, Australian Standards, workplace health and safety and environmental requirements
4. Complete work processes	4.1 Conduct final inspection according to workplace procedures and confirm vehicle is ready for use
	4.2 Clear work area and dispose of or recycle materials according to workplace procedures
	4.3 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.

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SKILL	DESCRIPTION
Learning	Locates required sources of information efficiently
	Develops a sequenced plan for a specific task
Reading	Interprets Australian standards relating to repairing CNG fuel systems
	Organises and interprets technical information from workplace procedures, manufacturer procedures and manufacturer specifications
Oral communication	Clarifies instructions
	Obtains information from customers and supervisors
Numeracy	Measures CNG fuel system components
	Uses mathematical operations, including addition, subtraction, multiplication and division
	Calculates distances, areas, volumes, tolerances and deviations from manufacturer specifications
Planning and organising	Plans own work requirements
Talling and organising	Prioritises actions to achieve required outcomes
	Ensures tasks are completed within workplace timeframes
Technology	Uses precision measuring equipment

Unit Mapping Information

Supersedes and is equivalent to AURTTL002 Diagnose and repair CNG fuel systems.

Links

Companion Volume Implementation Guide is found on VETNet - https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b4278d82-d487-4070-a8c4-78045ec695b1

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