

AURETR131 Diagnose and repair ignition systems

Release: 1

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Modification History

Release	Comments
	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 ignition systems of vehicles, vessels or machinery. The unit involves preparing for the task, selecting the correct diagnostic procedure, carrying out the diagnosis and the repair, performing post-repair testing, and completing workplace processes and documentation.

The unit applies to those who work in an automotive service and repair industry. The ignition systems include those in agricultural machinery, heavy commercial vehicles, light vehicles, marine vessels, mobile plant machinery, motorcycles or outdoor power equipment.

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

Unit Sector

Electrical Technical - Electrical and Electronics

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
Prepare to diagnose and repair ignition system	1.1 Access workplace instructions to identify job requirements and confirm existence of fault according to workplace procedures
	1.2 Source and interpret required information for diagnosis activity, including customer complaint, workplace and manufacturer procedures
	1.3 Source testing strategy to efficiently identify cause of fault using workplace and manufacturer procedures
	1.4 Identify hazards and environmental issues, assess potential risks and implement control measures in line with workplace

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ELEMENT	PERFORMANCE CRITERIA
	policies 1.5 Identify diagnostic tools and equipment required for the job and examine them for serviceability
2. Diagnose ignition system	2.1 Carry out diagnostic tests according to manufacturer and workplace procedures, and workplace health and safety requirements
	2.2 Analyse diagnostic test results to identify cause of fault, conducting further tests if required
	2.3 Confirm and report cause of fault according to workplace procedures
	2.4 Develop and report recommendations for necessary repairs or adjustments according to workplace procedures
3. Repair ignition system	3.1 Source and interpret required information for repair activity, including manufacturer specifications, workplace and manufacturer procedures
	3.2 Identify repair tools, equipment and materials required for the job and examine for serviceability
	3.3 Carry out repairs or component replacements and adjustments according to workplace and manufacturer procedures, manufacturer specifications, workplace health and safety and environmental requirements
	3.4 Carry out post-repair testing according to workplace procedures, workplace health and safety and environmental requirements to confirm fault rectification and repair any issues identified
4. Compete work processes	4.1 Carry out final inspection to ensure work meets workplace expectations and 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.

SKILL	DESCRIPTION
Learning	Locates required sources of information efficiently
8	Develops a sequenced plan for a specific task

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SKILL	DESCRIPTION
Reading	Organises and interprets technical information from workplace procedures, manufacturer procedures and manufacturer specifications
	Interprets text, symbols and wiring diagrams in information relating to electrical system testing and repair equipment from manufacturer specifications and workplace instructions and procedures
Oral communication	Clarifies instructions
	Obtains information from customers and supervisors
Numeracy	Matches electrical components and part identification numbers to workplace instructions, vehicle, machinery and component part lists, and manufacturer specifications
	Interprets vehicle electrical measurements and readings
	Measures voltage, current and resistance and uses mathematical operations
	Calculates deviations from manufacturer specifications
Planning and organising	Plans own work requirements
Taming and organismig	Prioritises actions to achieve required outcomes
	Ensures tasks are completed within workplace timeframes
Technology	Uses specialised diagnostic equipment.

Unit Mapping Information

Supersedes and is equivalent to AURETR031 Diagnose and repair ignition 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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