

AURPTA111 Diagnose and repair pumping 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 pumping systems of outdoor power equipment according to manufacturer specifications. The unit involves preparing for the task, sourcing the testing strategy, carrying out the diagnosis and the repair, performing post-repair testing, and completing workplace processes and documentation.

The unit applies to those working in the automotive service and repair industry. The pumping systems are those of outdoor power equipment and include:

- centrifugal pumps used for firefighting, irrigation and water transfer
- · diaphragm pumps used in orchard spraying
- high pressure piston pumps used for pressure cleaners.

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

Unit Sector

Outdoor Power Equipment Technical

Elements and Performance Criteria

ELEMENTS	PERFORMANCE CRITERIA
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
Prepare to diagnose and repair outdoor power equipment pumping 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

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ELEMENTS	PERFORMANCE CRITERIA
	implement control measures in line with workplace policies and procedures
	1.5 Identify tools and equipment required for testing strategy and establish serviceability according to workplace procedures
2. Diagnose pumping system	2.1 Implement diagnostic tests set out in testing strategy according to manufacturer and workplace procedures, and workplace health and safety requirements
	2.2 Identify cause of fault through analysis of diagnostic test results.
	2.3 Confirm and report cause of fault according to workplace procedures
	2.4 Develop and report recommendations for necessary repairs according to workplace procedures
3. Repair pumping system	3.1 Identify required information for repair activity
	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, 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
4. Complete work processes	4.1 Conduct final inspection according to workplace procedures and confirm equipment 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 and are not explicit in the performance criteria.

SKILL	DESCRIPTION
Learning	 Locates required sources of information efficiently Develops a sequenced plan for a specific task.
Numeracy	Measures pumping system components and uses mathematical operations

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SKILL	DESCRIPTION
	Calculates deviations and tolerances from manufacturer specifications
	Interprets pressure and flow volumes for pumping systems.
Oral communication	Clarifies instructions
	Obtains information from customers and supervisors.
Reading	Interprets information from manufacturer and workshop literature when seeking pumping system specifications and procedures.
Planning and organising	Plans own work requirements
	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 AURPTA011 Diagnose and repair pumping 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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