



Australian Government

AURETR051 Diagnose, repair and replace precision agriculture systems

Release: 1

AURETR051 Diagnose, repair and replace precision agriculture systems

Modification History

Release	Comments
Release 1	This version first released with the Automotive Retail, Service and Repair Training Package Version 7.0. Newly created unit.

Application

This unit describes the skills and knowledge required to diagnose, repair and replace precision agriculture systems. It involves preparing for the task, inspecting the systems and circuits, servicing, repairing, replacing and testing the systems, and completing workplace finalisation processes and documentation.

It applies to individuals who work in the service and repair industry, specifically within precision agriculture.

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 precision agriculture systems	1.1 Identify job requirements from workplace instructions 1.2 Identify information required for diagnosing, repairing and replacing activities from customers and supervisors 1.3 Identify hazards and environmental issues associated with the activity, assess potential risks and implement control measures according to workplace policies and procedures 1.4 Identify tools and equipment required for diagnosis and establish serviceability according to workplace procedures

2. Diagnose precision agriculture systems	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 precision agriculture systems	3.1 Identify information required for repair and replacement activity 3.2 Identify required tools, equipment and materials required for repair 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 and verify that calibrations and operational set up is complete
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 equipment 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
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 components and part identification numbers to workplace instructions and component part lists, and manufacturer specifications • reads and interprets vehicle measurements and readings on digital and analogue gauges • calculates deviations from manufacturer specifications
Planning and organising	• plans own work requirements • prioritises actions to achieve required outcomes • completes tasks within workplace timeframes • develops a sequenced plan for a specific task
Technology	• uses specialised diagnostic equipment

Unit Mapping Information

Newly created unit.

Links

Companion Volume Implementation Guides is found on VETNet -

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