



Australian Government

Assessment Requirements for AURNTD101 Diagnose and repair forklift hydrostatic steering 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

Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- diagnose and repair a fault in at least three of the following forklift hydrostatic steering system components:
 - king pin assembly
 - steering control unit
 - hydraulic valves
 - pump
 - steering column
 - hydraulic cylinders.

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- methods to locate and interpret information required to diagnose and repair forklift hydrostatic steering systems, including:
 - information provided by customers and supervisors
 - manufacturer specifications and procedures or equivalent documentation
- workplace procedures required to diagnose and repair forklift hydrostatic steering systems, including:
 - establishing serviceability of tools and equipment
 - documentation procedures
 - housekeeping procedures, including:
 - examination of tools and equipment
 - storage of equipment
 - identification, tagging and isolation of faulty equipment

- disposal of excess materials
 - recycling procedures
- workplace health and safety (WHS) requirements relating to diagnosing and repairing forklift hydrostatic steering systems, including procedures for:
 - working with high pressure fluid hazards
 - using lifting, jacking and supporting equipment
- environmental requirements relating to diagnosing and repairing forklift hydrostatic steering systems, including procedures for trapping, storing and disposing of hydraulic fluids released from hydrostatic steering systems
- operating principles of forklift hydrostatic steering systems, including full hydraulic steering
- purpose and operation of forklift hydrostatic steering systems and components, including:
 - king pin assembly
 - steering control unit
 - hydraulic valves
 - pump
 - steering column
 - hydraulic cylinders
- diagnostic testing procedures for forklift hydrostatic steering systems, including:
 - pressure and flow testing the system and individual components
 - system operation analysis
 - component wear analysis
- repair procedures for forklift hydrostatic steering systems, including procedures for removing, replacing and adjusting the systems
- post-repair testing procedures for forklift hydrostatic steering systems.

Assessment Conditions

Competency is to be assessed in the workplace or a simulated environment that accurately reflects performance in a real workplace setting.

Assessment must include direct observation of tasks.

Where assessment of competency includes third-party evidence, individuals must provide evidence that links them to the forklift hydrostatic steering systems that they have worked on, e.g. repair orders.

Assessors must verify performance evidence through questioning on skills and knowledge to ensure correct interpretation and application.

The following resources must be made available:

- automotive repair workplace or simulated workplace
- workplace instructions
- manufacturer forklift hydrostatic steering system specifications

- operational forklifts with faults in the hydrostatic steering system components specified in the performance evidence
- diagnostic equipment for forklift hydrostatic steering systems
- tools, equipment and materials appropriate for repairing and adjusting forklift hydrostatic steering systems.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

Companion Volume Implementation Guide is found on VETNet -

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