



Australian Government

Assessment Requirements for AURNTB101 Diagnose and repair forklift hydraulic braking 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 two of the following types of forklift hydraulic braking systems:
 - drum brake system
 - dry disc brake system
 - wet multi-plate disc brake system.

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 hydraulic braking systems, including:
 - information provided by customers and supervisors
 - manufacturer specifications and procedures or equivalent documentation
- workplace procedures required to diagnose and repair forklift hydraulic braking 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 hydraulic braking systems, including procedures for:
 - working with brake dust and hydraulic oil hazards
 - using lifting, jacking and supporting equipment
- environmental requirements relating to diagnosing and repairing forklift hydraulic braking systems, including procedures for trapping, storing and disposing of brake dust and brake fluid released from hydraulic braking systems
- operating principles of forklift hydraulic braking systems, including:
 - levers
 - friction
 - hydraulics, including the relationship between force, pressure and area
 - properties of brake fluids, including:
 - Department of Transportation (DOT) classification
 - synthetic and non-synthetic
 - compatibility of fluid types
- purpose and operation of forklift hydraulic braking systems and components, including:
 - power assisted systems, including:
 - drum brake systems
 - dry disc brake systems
 - wet multi-plate disc systems
 - parking brake systems
 - master cylinders
 - braking system valves and switches
 - brake boosting systems
 - full hydraulic systems, including:
 - wet multi-plate disc systems
 - parking brake systems
 - braking system valves and switches
 - oil pump and cooler
- diagnostic testing procedures for forklift hydraulic braking systems, including procedures for:
 - checking brake pedal
 - operational tests of brake booster
 - operational tests of master cylinder
 - testing brake fluid
 - parking brake operational tests
 - drum, dry disc and wet multi-plate disc brake operational tests
 - measuring and evaluating brake drums, shoes, discs and pads
- repair procedures for forklift hydraulic braking systems, including procedures for removing, replacing and adjusting:
 - hydraulic system components

- braking system components
- post-repair testing procedures for forklift hydraulic braking 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 hydraulic braking 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 hydraulic braking system specifications
- operational forklifts with faults in two different braking systems
- diagnostic equipment for forklift hydraulic braking systems
- tools, equipment and materials appropriate for repairing and adjusting forklift hydraulic braking 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>