



Australian Government

AURNTA001 Inspect, service and repair forklift mast assemblies

Release: 1

AURNTA001 Inspect, service and repair forklift mast assemblies

Modification History

Release	Comment
Release 1	New unit of competency.

Application

This unit describes the performance outcomes required to inspect, service and repair faults in forklift mast assemblies. It involves preparing for the task, inspecting the assembly to determine the service and repair requirements, carrying out the service and repair, performing post-repair testing, and completing workplace processes and documentation.

It applies to those working in the automotive service and repair industry. The forklift mast assemblies include those of agricultural machinery or forklift vehicles.

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

Competency Field

Mechanical - Lifting Equipment

Unit Sector

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. Where bold and italicised text is used, further information is detailed in the range of conditions section.
1. Prepare to inspect, service and repair forklift mast assembly	1.1 Job requirements are determined from workplace instructions 1.2 Inspect, service and repair procedures and information are sourced and interpreted 1.3 Options are analysed and those most appropriate to the circumstances are selected

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold and italicised text is used, further information is detailed in the range of conditions section.
	1.4 Hazards associated with the work are identified and risks are managed 1.5 Tools, equipment and materials are selected and checked for serviceability
2. Inspect forklift mast assembly	2.1 Inspection is carried out according to manufacturer specifications, workplace procedures, and <i>safety and environmental requirements</i> 2.2 Faults are identified from inspection results and causes of faults are determined 2.3 Inspection findings are reported according to workplace procedures, and include recommendations for necessary repairs or adjustments
3. Service and repair forklift mast assembly	3.1 Service and repair procedures and information are sourced and interpreted 3.2 Service and repair tools, equipment and materials are selected and prepared 3.3 Service and adjustments are carried out according to manufacturer specifications, workplace procedures, and safety and environmental requirements 3.4 Repairs and component replacements and adjustments are carried out according to manufacturer specifications, workplace procedures, and safety and environmental requirements
4. Complete work processes	4.1 Final inspection is made to ensure work is to workplace expectations and vehicle or machinery is presented ready for use 4.2 Work area is cleaned, waste and non-recyclable materials are disposed of, and recyclable material is collected 4.3 Tools and equipment are checked and stored according to workplace procedures 4.4 Workplace documentation is processed 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.

Skills	Description
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Skills	Description
Learning skills to:	locate appropriate information efficiently.
Reading skills to:	interpret information from manufacturer and workshop literature when seeking forklift mast assembly specifications and procedures.
Writing skills to:	legibly and accurately fill out workplace documentation when reporting diagnostic findings, making repair recommendations, and recording parts and material used.
Oral communication skills to:	clarify workplace instructions and determine job requirements.
Numeracy skills to:	- measure forklift mast assembly components and use basic mathematical operations, including addition and subtraction, to calculate distances, tolerances and deviations from manufacturer specifications - understand measuring and test equipment divisions.
Planning and organising skills to:	plan own work requirements and prioritise actions to achieve required outcomes and ensure tasks are completed within workplace timeframes.
Technology skills to:	use precision measuring equipment, such as pressure gauges.

Range of Conditions

This section specifies work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included. Bold italicised wording, if used in the performance criteria, is detailed below.

<i>Safety and environmental requirements</i> must include:	- work health and safety (WHS) and occupational health and safety (OHS) requirements, including procedures for: - working with hydraulic pressure - manually handling forklift mast assembly components - supporting and securing forklift mast assembly - environmental requirements, including procedures for trapping, storing and disposing of lubricants and fluids released from forklift mast assembly.
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Unit Mapping Information

Equivalent to AURNTA3001 Inspect, service and repair forklift mast assemblies

Links

Companion Volume implementation guides are found in VETNet -

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

Assessment Requirements for AURNTA001 Inspect, service and repair forklift mast assemblies

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Performance Evidence

Before competency can be determined, individuals must demonstrate they can perform the following according to the standards defined in this unit's elements, performance criteria, range of conditions and foundation skills:

- inspect, service and repair one forklift mast assembly, including:
 - carriage and forks
 - lifting chain
 - hydraulic system
 - mast operating levers and valves
 - mast and crosshead.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to inspecting, servicing and repairing forklift mast assemblies, including procedures for:
 - working with hydraulic pressure
 - manually handling of mast forklift assembly components
 - supporting and securing forklift mast assembly
- environmental requirements, including procedures for trapping, storing and disposing of lubricants and fluids released from forklift mast assembly.
- operating principles of forklift mast assemblies
- identification, function and operation of the forklift mast assembly components specified in the performance evidence
- forklift mast assembly lubricant types and applications
- inspection procedures for forklift mast assemblies, including:

- component wear analysis
- system operation analysis
- service and repair procedures for forklift mast assemblies, including removing, replacing, repairing, lubricating and adjusting forklift mast assembly components
- post-repair testing procedures for forklift mast assemblies, including system performance.

Assessment Conditions

Assessors must satisfy NVR/AQTF assessor requirements.

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 mast assemblies that they have serviced and repaired, 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 mast assembly specifications
- vehicle or machinery with forklift mast assembly requiring service and repair
- test equipment for forklift mast assemblies
- tools, equipment and materials appropriate for inspecting, servicing and repairing forklift mast assemblies.

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