



Australian Government

AURHTJ005 Identify and apply heavy vehicle pneumatic wheeled traction performance enhancement systems

Release: 1

AURHTJ005 Identify and apply heavy vehicle pneumatic wheeled traction performance enhancement systems

Modification History

Release	Comment
Release 1	New unit of competency.

Application

This unit describes the performance outcomes required to identify and apply pneumatic wheeled traction performance enhancement systems in heavy vehicles. It involves identifying and confirming work requirements, preparing for the work, identifying and applying ballasting, chains, weights, inflation levels and tyre tread designs, and completing workplace processes and documentation.

It applies to those working in the automotive service and repair industry. The traction systems include those of agricultural machinery or mobile plant machinery.

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

Competency Field

Mechanical - Heavy Vehicle

Unit Sector

Technical - Wheels and Tyres

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. Identify traction performance enhancement systems	1.1 Job requirements are determined from workplace instructions 1.2 Wheeled traction system information is sourced and interpreted 1.3 Options are analysed and those most appropriate to the

Elements	Performance Criteria
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	circumstances are selected 1.4 Technical requirements for traction performance enhancement are identified and support equipment is identified and prepared 1.5 Hazards associated with the work are identified and risks are managed 1.6 Tools, materials and required lifting equipment are selected and checked for serviceability
2. Apply a traction performance enhancement system	2.1 Wheeled traction performance enhancement is applied according to manufacturer specifications, workplace procedures and safety requirements 2.2 Wheel adjustments made during the traction enhancement comply with manufacturer specifications
3. Complete work processes	3.1 Final inspection is made to ensure work is to workplace expectations and vehicle is presented ready for use, including protective guards, safety features and cowlings 3.2 Work area is cleaned, waste and non-recyclable materials are disposed of, and recyclable material is collected 3.3 Tools and equipment are checked and stored according to workplace procedures 3.4 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
Learning skills to:	locate appropriate sources of information efficiently.
Reading skills to:	interpret information from manufacturer specifications and workshop literature relating to heavy vehicle pneumatic wheeled traction performance enhancement systems.
Writing skills to:	legibly and accurately fill out workplace documentation, making recommendations, and recording parts and material used.
Numeracy skills to:	measure traction performance enhancement components and use basic mathematical operations, including addition and

Skills	Description
	subtraction, to calculate distances, tolerances and deviations from manufacturer specifications interpret pressure gauge scales.
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:	- conduct performance testing of components, systems and equipment - use measuring equipment, including scales, pressure gauges and tape measuring devices.

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 requirements</i> must include:	- work health and safety (WHS) and occupational health and safety (OHS) requirements, including procedures for: - manually handling heavy vehicle traction performance enhancement systems - inflating tyres safely - tagging out and isolating machines - wheel chocking.
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Unit Mapping Information

Equivalent to AURHTJ3005 Identify and apply pneumatic wheeled traction performance enhancement systems (heavy vehicle)

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 AURHTJ005 Identify and apply heavy vehicle pneumatic wheeled traction performance enhancement systems

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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:

- identify and apply heavy vehicle pneumatic wheeled traction performance enhancement systems on at least two different heavy vehicles or machinery, in which the work must involve:
 - identifying and applying traction performance enhancement systems that suit the load and weight distribution, and soil and terrain conditions
 - complying with manufacturer specifications and workplace procedures in the selection and application of the systems.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to traction performance enhancement systems, including procedures for:
 - manually handling the systems
 - inflating tyres safely
 - tagging out and isolating machines
 - wheel chocking
- traction performance enhancement systems appropriate to the following operating conditions:
 - soil and terrain condition
 - load and weight distribution

- application, purpose and operation of traction performance enhancement systems, including:
 - ballasting
 - chains, including chain tensioning equipment
 - weights
 - inflation
 - tread pattern variations
- post-fitting testing procedures for wheeled traction performance enhancement systems.

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 heavy vehicle or machinery pneumatic wheeled traction performance enhancement systems that they have applied, 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 wheeled traction performance enhancement system specifications
- two different heavy vehicles or machinery for applying wheeled traction performance enhancement systems
- tools, equipment and materials appropriate for applying wheeled traction performance enhancement systems.

Links

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