



Australian Government

AURLTJ004 Provide advice on the effects of wheel and tyre combinations

Release: 1

AURLTJ004 Provide advice on the effects of wheel and tyre combinations

Modification History

Release	Comment
Release 1	New unit of competency.

Application

This unit describes the performance outcomes required to provide advice to customers regarding specific non-standard wheel and tyre combinations that could affect the ride and handling characteristics of their vehicle. It involves confirming customer needs, analysing technical needs and options, providing advice on compliance with Australian Design Rules, recommending best options for wheel and tyre combinations, and completing workplace processes and documentation.

It applies to those working in the automotive service and repair industry. The wheel and tyre combinations include those for light vehicles, including four wheel drive (4WD) vehicles, light commercial vehicles or motorsport vehicles.

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

Competency Field

Mechanical - Light 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. Confirm customer	1.1 Customer is consulted to determine required wheel and tyre

Elements	Performance Criteria
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requirement	combinations 1.2 Alternative wheel and tyre combinations are discussed and confirmed with customer as required 1.3 Specifications of proposed or actual <i>wheel and tyre combinations</i> are clarified with customer
2. Locate and confirm data to inform technical opinion	2.1 Technical product personnel from wheel and tyre manufacturers are consulted as required to obtain technical information and advice 2.2 Compliance of wheel and tyre combinations with Australian Design Rules is confirmed and reported according to workplace procedures 2.3 Proposed or actual combinations are confirmed if they contravene Australian Design Rules and reported according to workplace procedures 2.4 Colleagues are consulted for technical knowledge and experience as necessary
3. Recommend wheel and tyre options that meet customer requirements	3.1 Effects of wheel and tyre combinations on vehicle performance, handling and comfort are discussed with customer 3.2 Advice on suitability of wheel and tyre combination is provided and discussed with customer 3.3 Options that meet customer needs are developed according to workplace procedures 3.4 Where wheel and tyre combination does not comply with Australian Design Rules, implications are discussed with customer 3.5 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:	research wheel and tyre technical specifications.

Skills	Description
Reading skills to:	- interpret ADR regulations - interpret manufacturers' wheel and tyre technical specifications.
Writing skills to:	legibly and accurately fill out workplace documentation, such as job cards.
Oral communication skills to:	- clarify and confirm information and instructions - speak clearly and directly to present problems or issues to appropriate personnel.
Numeracy skills to:	- interpret numerical information in wheel and tyre specifications - interpret metric and imperial units of measurement.
Problem solving skills to:	determine suitable or alternative wheel and tyre combinations.

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>Wheel and tyre combinations</i> must include:	- wheel rim sizes - wheel material - wheel diameters - tyre sizes - tyre compounds - tyre tread designs.
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Unit Mapping Information

Equivalent to AURLTJ3004 Provide advice on the effects of wheel and tyre combinations

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 AURLTJ004 Provide advice on the effects of wheel and tyre combinations

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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:

- provide advice to three different customers on the effects of different wheel and tyre combinations on their vehicles' ride and handling characteristics
- demonstrate effective communication techniques when discussing technical information with above customers.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- principles of wheel and tyre technology, including:
 - directional tyres
 - wheel offsets
 - wheel track
 - tyre to road contact
- effects of wheel and tyre combinations on vehicle comfort, handling and safety
- Australian Design Rules (ADRs) relating to wheels and tyres
- legislation concerning ADR compliance.

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 wheel and tyre advice that they have provided, e.g. work 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
- three different customers requiring advice on wheel and tyre combinations
- manufacturer wheel and tyre specifications
- ADRs relating to wheel and tyre combinations.

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