



Australian Government

AURLLD001 Determine compliance of steering and suspension modifications

Release: 1

AURLLD001 Determine compliance of steering and suspension modifications

Modification History

Release	Comment
Release 1	New unit of competency.

Application

This unit describes the performance outcomes required to advise customers on the compliance of steering and suspension modifications with Australian Design Rules (ADRs) for normal road usage. It involves clarifying modifications, determining modification compliance with ADRs, and completing workplace processes and documentation.

It applies to those working in the automotive service and repair industry. The steering and suspension systems are those of four-wheel drive (4WD) vehicles, light vehicles and light commercial vehicles.

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

Competency Field

Mechanical - Light Vehicle

Unit Sector

Regulatory or Legal - Steering and Suspension

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. Clarify details of steering and suspension modification	1.1 Confirmation is sought, through discussion with the customer, of the nature of steering and suspension modification 1.2 Modification specifications and dimensions are determined and

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.
	documented 1.3 Non-standard steering and suspension components are identified
2. Determine specific ADR information relating to modification	2.1 ADR bulletin applicable to modification is sourced and ruling on the legality of intended modification is identified and interpreted 2.2 Compliance of modification specifications with ADR requirements is identified and documented 2.3 Interpretation of ruling in relation to intended modification is clarified and discussed with customer
3. Recommend a plan of action to achieve ADR requirements	3.1 Suitable plan of action to meet ADR requirements is discussed and clarified with customer 3.2 Workplace documentation, including recommendations for modification, 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 ADR information efficiently.
Reading skills to:	- interpret information from ADR bulletins containing specialised vocabulary and apply information to intended modification - interpret information from manufacturer and workshop literature when seeking steering and suspension system specifications.
Writing skills to:	legibly and accurately fill out workplace documentation when reporting compliance of steering and suspension modifications.
Numeracy skills to:	- understand and communicate steering and suspension system numerical information in degrees, and in metric and imperial distances - measure steering and suspension system components and use basic mathematical operations, including addition and subtraction, to calculate distances, tolerances and deviations from

Skills	Description
	manufacturer specifications.

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.

There is no Range of Conditions for this unit.

Unit Mapping Information

Equivalent to AURLLD3001 Determine compliance of steering and suspension modifications

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 AURLLD001 Determine compliance of steering and suspension modifications

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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 and foundation skills:

- determine the compliance of two of the following vehicle steering and suspension modifications:
 - lowered or raised normal ride heights
 - increased track width
 - variations between front and rear ride heights
 - replacement wheel and tyre assemblies
 - replacement steering wheel
 - fitted or replacement sway bar, track rod or strut brace
 - conversion of vehicle from left-hand drive to right-hand drive.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- common types of vehicle steering and suspension modifications, including:
 - lowering or raising vehicle ride heights, including setting different front and rear ride heights
 - increasing vehicle track width
 - replacing wheel and tyre assemblies
 - replacing steering wheels
 - fitting or replacing sway bar, track rod or strut braces
 - converting vehicle from left-hand drive to right-hand drive
- Australian Design Rules (ADRs), including:
 - methods for locating

- purpose and format
- contents relevant to vehicle steering and suspension system modifications
- procedures for determining compliance of vehicle steering and suspension system modifications with ADR requirements
- procedures for making recommendations to resolve non-compliant modifications.

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 steering and suspension modifications that they have assessed, 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
- vehicle manufacturer steering and suspension system specifications
- vehicle ADRs relevant to steering and suspension system modifications
- vehicles requiring the steering and suspension system modifications specified in the performance evidence
- tools and equipment appropriate for determining the compliance of steering and suspension modifications.

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