



Australian Government

AURLLD011 Determine compliance of steering and suspension modifications

Release: 1

AURLLD011 Determine compliance of steering and suspension modifications

Modification History

Release	Comment
Release 1	New unit of competency.

Application

This unit describes the skills and knowledge 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.

This unit applies to those working as an automotive service and repair technician. The steering and suspension systems are those of four-wheel drive (4WD) vehicles, light vehicles and light commercial vehicles. This unit does not apply to agricultural machinery, heavy commercial vehicles, marine vessels, mobile plant machinery or motorcycles.

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

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.
1. Clarify details of steering and suspension modification	1.1 Discuss and confirm nature of steering and suspension modification with the customer 1.2 Document modification specifications and dimensions 1.3 Identify and document non-standard steering and suspension components
2. Interpret legality of steering and suspension modification	2.1 Obtain and interpret ADR bulletin applicable to modification to identify the ruling on the legality of intended modification 2.2 Document compliance of intended modification specifications against ADR requirements

	2.3 Clarify and discuss interpretation of ruling with customer
3. Recommend a plan of action to achieve ADR requirements	3.1 Develop suitable plan of action to meet ADR requirements 3.2 Clarify and discuss plan with customer 3.3 Complete workplace documentation, including recommendations for modification, 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 relevant sources of ADR information efficiently
Reading skills to:	- read and interpret information from ADR bulletins containing specialised vocabulary - read and interpret information from manufacturer and workplace procedures when seeking steering and suspension system specifications - apply information to intended modification
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 - use basic mathematical operations, including addition and subtraction - calculate distances, tolerances and deviations from manufacturer specifications
Oral communication skills to:	discuss and clarify ADR requirements with the customer
Problem solving skills to:	develop a suitable plan of action to meet ADR requirements

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AURLLD011 Determine compliance of steering and suspension modifications (Release 1)	AURLLD001 Determine compliance of steering and suspension modifications (Release 1)	Wording changes to ensure compliance with Standards for Training Packages. Addition of problem solving and communication skills to foundation skills. Addition of assessor requirements.	Equivalent

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 AURLLD011 Determine compliance of steering and suspension modifications

Modification History

Release	Comment
Release 1	New unit of competency.

Performance Evidence

The candidate must demonstrate they can perform the following according to the standards defined in the elements, performance criteria and foundation skills of this unit.

The candidate must determine and document 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

The candidate must demonstrate the following knowledge:

Key policies, workplace procedures and standards for steering and suspension modification including:

- how to locate, read and interpret Australian Design Rules (ADRs) and manufacturer specifications for steering and suspension system modification
- workplace procedures for negotiating and communicating with customers
- workplace procedures for determining compliance of vehicle steering and suspension system modifications against ADR requirements
- procedures for making recommendations and documenting non-compliant modifications

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
-

Assessment Conditions

The assessment must:

- include access to:
 - an automotive repair workplace or simulated workplace that reflects workplace conditions - where simulation is used, it must reflect real working conditions by modelling industry operating conditions and contingencies, as well as, using suitable facilities, equipment and resources
 - repair orders and workplace instructions for steering and suspension modification activity
 - workplace procedures for steering and suspension modification activity
 - 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, equipment and materials suitable for determining the compliance of steering and suspension modifications
- be demonstrated in the workplace or in a simulated environment that reflects workplace conditions
 - be conducted in a safe environment
 - be assessed in compliance with relevant policies, procedures, processes and operational manuals directly related to the industry sector for which it is being assessed
 - confirm consistent performance can be applied in a range of relevant workplace circumstances

Assessor requirements

Assessors of this unit must:

- satisfy the assessor requirements in applicable vocational education and training legislation, frameworks and/or standards
-

Links

Companion Volume Implementation Guides are found in VETNet -

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