



Australian Government

AURLTD013 Carry out advanced light vehicle wheel alignment operations

Release: 1

AURLTD013 Carry out advanced light vehicle wheel alignment operations

Modification History

Release	Comment
Release 1	New unit of competency.

Application

This unit describes the skills and knowledge required to carry out advanced light vehicle wheel alignment operations. It involves assessing any modifications made to a steering system against safety and Australian Design Rule (ADR) compliance, carrying out pre-alignment inspection, performing any necessary adjustments, testing the vehicle and completing workplace processes and documentation.

It applies to those working within the automotive light vehicle service and repair or light vehicle wheel alignment industry. The wheel alignment operations include those of four wheel drive (4WD) vehicles, light vehicles, light commercial vehicles or motorsport vehicles. The unit does not apply to agricultural machinery, heavy commercial vehicles, marine vessels, mobile plant machinery or motorcycles.

Licensing, legislative, regulatory or certification requirements may apply to this unit in some jurisdictions. Users are advised to check with the relevant regulatory authority.

Pre-requisite Unit

This unit of competency may only be undertaken following completion of the below unit or its equivalent:

- AURLTD006 Carry out light vehicle wheel alignment operations
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Unit Sector

Technical - 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. Assess compliance of	1.1 Establish purpose for resetting vehicle wheel alignment from

the proposed modification	<p>workplace instructions and confirm with customer</p> <p>1.2 Assess practicality of modification specifications and discuss with customer</p> <p>1.3 Assess proposed modification against safety and ADR compliance and adjust if necessary</p>
2. Carry out light vehicle wheel alignment pre-checks	<p>2.1 Test vehicle according to workplace procedures and workplace health and safety requirements to ensure its condition enables light vehicle wheel alignment to be safely conducted</p> <p>2.2 Obtain and interpret vehicle wheel alignment pre-check information</p> <p>2.3 Complete vehicle wheel alignment pre-check according to manufacturer and workplace procedures and workplace health and safety requirements</p> <p>2.4 Identify and report faults according to workplace procedures</p>
3. Adjust light vehicle alignment to achieve required specifications	<p>3.1 Obtain and interpret light vehicle wheel alignment information</p> <p>3.2 Identify and examine wheel alignment equipment and tools according to manufacturer and workplace procedures</p> <p>3.3 Connect wheel alignment measuring equipment to vehicle according to manufacturer specifications, workplace procedures and workplace health and safety requirements</p> <p>3.4 Perform and record wheel alignment measurements according to manufacturer specifications, workplace procedures and workplace health and safety requirements</p> <p>3.5 Adjust vehicle wheel alignment according to manufacturer specifications, workplace procedures and workplace health and safety requirements</p> <p>3.6 Perform and record post-adjustment wheel alignment measurements according to manufacturer specifications, workplace procedures and workplace health and safety requirements</p>
4. Complete work processes	<p>4.1 Test vehicle to confirm accuracy of adjustments according to workplace procedures</p> <p>4.2 Carry out final inspection to ensure work meets workplace expectations and vehicle is ready for use</p> <p>4.3 Clear work area and dispose of or recycle materials according to workplace procedures</p> <p>4.4 Complete wheel aligner maintenance, examine and store tools and equipment according to workplace procedures</p> <p>4.5 Enter alignment adjustment data into customer's vehicle records</p> <p>4.6 Complete workplace documentation according to workplace procedures</p>

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:	<ul style="list-style-type: none"> locate relevant sources of information for light vehicle wheel alignment pre-checks and light vehicle wheel alignment efficiently
Reading skills to:	<ul style="list-style-type: none"> read and interpret complex information and ideas from workplace procedures, documentation and Australian Design Rules read and interpret safe operating procedures for wheel alignment equipment from workplace signs, procedures and manufacturer procedures interpret information from manufacturer specifications and workshop literature when seeking light vehicle wheel alignment specifications
Writing skills to:	<ul style="list-style-type: none"> legibly and accurately fill out workplace documentation when reporting findings, making recommendations and recording vehicle pre-alignment checks, pre- and post-wheel alignment readings
Numeracy skills to:	<ul style="list-style-type: none"> measure steering and suspension system components use basic mathematical operations, including addition, subtraction and understanding of angles in degrees calculate distances, tolerances and deviations from manufacturer specifications understand measurements in metric and imperial units of measurement
Digital literacy skills to:	<ul style="list-style-type: none"> navigate computer-based wheel alignment software
Technology skills to:	<ul style="list-style-type: none"> use precision measuring wheel alignment equipment
Planning and organising skills to:	<ul style="list-style-type: none"> plan own work requirements prioritise actions to achieve required outcomes ensure tasks are completed within workplace timeframes select and prepare suitable tools and equipment to allow the job to be completed identify and prepare the appropriate tools and equipment to allow the job to be completed without time wastage
Problem solving skills to:	<ul style="list-style-type: none"> determine job requirements and select suitable tools or equipment assess practicality of customer specifications recommend steering system alignment adjustments based on safety and ADR compliance

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AURLTD013 Carry out advanced light vehicle wheel alignment operations (Release 1)	AURLTD003 Reset steering system alignment adjustments to customer specifications (Release 1)	Title change to reflect outcomes of the unit. Addition of a pre-requisite. Wording changes to ensure compliance with Standards for Training Packages. Re-wording of performance criteria and elements. Removal of references to OHS requirements. Removal of range of conditions. Addition of technology skills to foundation skills. Addition of assessor requirements.	Not equivalent

Links

Companion Volume Implementation Guides are found in VETNet -

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