



Australian Government

**Assessment Requirements for AURLTD006
Carry out light vehicle wheel alignment
operations**

Release: 1

Assessment Requirements for AURLTD006 Carry out light vehicle wheel alignment operations

Modification History

Release	Comment
Release 1	New unit of competency.

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:

- align all four wheels of:
 - one front wheel drive vehicle
 - one rear wheel drive vehicle
- above wheel alignment must include adjusting the following steering angles:
 - camber
 - caster
 - steering axis inclination (SAI)
 - toe (toe-in and toe-out)
 - toe-out on turns.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to light vehicle wheel alignment, including procedures for using air jacks
- application, purpose and operating principles of steering geometry and wheel alignment angles, including:
 - Ackermann principle of steering
 - camber
 - caster
 - SAI
 - thrust angle

- toe-in and toe-out
- toe-out on turns
- included angle
- point of intersection
- scrub radius
- vehicle pre-alignment inspection procedures, including:
 - analysing tyre wear
 - determining wheel run-out
 - determining vehicle height
 - checking frame alignment
- types and operation of wheel alignment systems, including:
 - laser aligners
 - visual aligners
 - camera aligners
- relationships between fault symptoms and component defects
- procedures for measuring and adjusting steering angles, including:
 - camber
 - caster
 - steering axis inclination
 - thrust angle
 - toe
 - toe-out on turns
- procedures for carrying out four-wheel alignments
- steering system reset procedures to calibrate on-board system sensors with the steering geometry.

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 vehicle wheel alignments that they have carried out, 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 wheel alignment specifications
- one front wheel drive light vehicle and one rear wheel drive light vehicle requiring the adjustments specified in the performance evidence
- wheel alignment equipment for light vehicles
- tools, equipment and materials appropriate for carrying out wheel alignment operations on light vehicles.

Links

Companion Volume implementation guides are found in VETNet -

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

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