



**Australian Government**

**Assessment Requirements for AURLTD106  
Carry out light vehicle wheel alignment  
operations**

**Release: 1**

# Assessment Requirements for AURLTD106 Carry out light vehicle wheel alignment operations

## Modification History

Release	Comments
Release 1	This version first released with AUR Automotive Retail, Service and Repair Training Package Version 6.0

## Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- align all four wheels of:
  - one front wheel drive vehicle
  - one rear wheel drive vehicle
- while completing the above tasks, adjust all of the following steering angles:
  - camber
  - caster
  - steering axis inclination (SAI)
  - toe (toe-in and toe-out)
  - toe-out on turns.

## Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- methods to locate and interpret information required to carry out light vehicle wheel alignment including:
  - manufacturer specifications and procedures
  - workplace procedures
- workplace procedures required to carry out light vehicle wheel alignment including:
  - establishing serviceability of tools and equipment
  - pre and post wheel alignment procedures
  - documentation procedures
  - housekeeping procedures including:
    - examination of tools and equipment
    - storage of equipment

- identification, tagging and isolation of faulty equipment
- disposal of excess materials
- recycling procedures
- workplace health and safety (WHS) requirements relating to light vehicle wheel alignment, including:
  - procedures for using air jacks
- 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 alignment
- post-wheel alignment testing procedures for light vehicles including steering system reset procedures to calibrate on-board system sensors with the steering geometry.

## Assessment Conditions

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.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

## Links

Companion Volume Implementation Guide is found on VETNet -

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