



**Australian Government**

**Assessment Requirements for AURLTD101  
Select and install performance enhanced  
suspension system products**

**Release: 1**

# Assessment Requirements for AURLTD101 Select and install performance enhanced suspension system products

## Modification History

Release	Comments
Release 1	This version first released with the Automotive Retail, Service and Repair Training Package Version 7.0.  Supersedes and is equivalent to AURLTD001 Select and install performance enhanced suspension system products.

## 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:

- select and install at least one of the following performance enhanced suspension system:
  - suspension coil springs with modified spring rates and/or heights
  - modified shock absorbers and/or struts
  - modified sway bars
  - modified suspension bushes
  - modified torsion bars.

## 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:

- key work health and safety (WHS) and regulatory requirements relating to selecting and installing performance enhanced suspension system products, including procedures for managing stored energy in springs and torsion bars
- workplace policies and procedures required to select and install performed enhanced suspension systems, including:
  - establishing serviceability of equipment
  - document procedures and requirements
  - identifying hazards and controlling risks
- key theories and methodologies of suspension systems
- standards, rules and specifications relating to suspension system products, including:
  - road safety standards
  - operation instructions, code software and diagrams

- The Australian Design Rules (ADRs)
  - state government rules and regulations
  - requirements of Vehicle Standards and modifications
- key features of safety systems in vehicles, including:
  - advanced driver-assistance systems
  - electronic control systems
  - safety restraint systems
  - telematics systems
- operating principles of suspension systems, including:
  - rigid and independent suspensions
  - sprung and unsprung mass
  - ride and curb height
- key features of performance enhanced suspension system products, including:
  - shock absorbers
  - guard covers
  - impact sensors
  - coil springs, torsion bars and leaf springs
  - adjustable coil-overs
  - rubber and urethane bushings
  - sway bars and sway bar links
  - strut mounts
- key policies and procedures for fitting, adjusting and removing performance enhanced suspension system components, including:
  - interpreting original equipment manufacturer (OEM) guides
  - integrating accessories to controller area network data bus (CAN-bus) system
- key procedures for operating equipment to test suspension systems, including:
  - shock absorber testers
  - suspension system road testing principles and procedures.

## 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 knowledge of enhanced suspension systems they have applied, e.g. work 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:

- work sheets, workplace instructions and manufacturing documentation related to enhanced suspension system products
- workplace policies and procedures
- tools, equipment and materials required to select and install enhanced suspension system products
- PPE required to select and install enhanced suspension system products

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>