



**Australian Government**

**Assessment Requirements for  
AURMTA003 Determine material  
suitability for competition vehicle  
components**

**Release: 1**

# Assessment Requirements for AURMTA003 Determine material suitability for competition vehicle components

## 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:

- determine material suitability for two different competition vehicle components of which:
  - one component must be made of metal
  - one component must be made of a composite material.

## Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to determining material suitability for competition vehicle components, including procedures for:
  - following equipment and system isolation requirements
  - selecting and using personal protective equipment (PPE)
- key requirements of regulatory body and category rules and their impact on component supplier specifications
- types of materials suitable for competition vehicle components, including:
  - metals and alloys
  - plastics
  - fibreglass
  - carbon
  - Kevlar
- properties of material suitable for competition vehicle components, including:
  - molecular structure of material
  - physical properties of fabrication material and material composites

- chemical properties of fabrication material and material composites
- mechanical properties of fabrication material and material composites
- material treatment processes
- causes of material degradation
- material and component testing procedures, including:
  - destructive
  - non-destructive.

## 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 material that they have tested to determine its suitability for competition vehicle components, e.g. work order.

Assessors must verify performance evidence through questioning on skills and knowledge to ensure correct interpretation and application.

The following resources must be made available:

- motor sport workplace or simulated workplace
- workplace instructions
- customer requirements, organisational procedures, safety procedures and regulations
- competition vehicles requiring components specified in the performance evidence
- material, testing equipment and fabrication equipment for the two different competition vehicle components specified in the performance evidence
- tools and equipment appropriate for determining material suitability for competition vehicle components.

## Links

Companion Volume implementation guides are found in VETNet -

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

Companion Volume implementation guides are found in VETNet -

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