



Australian Government

Assessment Requirements for AURMTA103 Determine material suitability for competition vehicle components

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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:

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

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 determine material suitability for competition vehicle components, including:
 - information provided by customer and supervisors
 - manufacturer specifications and procedures or equivalent documentation
- workplace procedures required to determine material suitability for competition vehicle components, including:
 - establishing serviceability of tools and equipment
 - 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
- work health and safety (WHS) 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)
- methods of panel creation
- key requirements of regulatory body and category rules and their impact on component supplier specifications
- performance specifications for components, including:
 - design, quality, material, equipment and required quantities allowable in regulatory body and category rules, event
 - regulatory body and category rules
 - event supplementary regulations
 - component supplier specifications
 - team instructions
- 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
- testing result documentation, including:
 - recommendations for material use
 - recommendations for component use
- material and component testing procedures, including:
 - destructive
 - non-destructive.

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 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.

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>