



Australian Government

AURMTA101 Prepare and service light competition vehicles

Release: 1

AURMTA101 Prepare and service light competition vehicles

Modification History

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

Application

This unit describes the skills and knowledge required to prepare and service an already assembled light competition vehicle in the workshop or at a motor sport event. It involves preparing for the task, servicing the light competition vehicle, making adjustments as required, and completing workplace processes and documentation. The light competition vehicles are under 300 kg of unladen weight, such as go-carts, motorcycles or jet skis.

The unit applies to those working in the motor sport industry.

No licensing, legislative, regulatory or certification requirements apply to this unit at the time of publication.

Unit Sector

Motorsport Technical

Elements and Performance Criteria

ELEMENTS	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Prepare for work	1.1 Determine job requirements from team instructions, category rules and supplementary regulations 1.2 Source servicing procedures and information 1.3 Identify hazards associated with the work and manage risks 1.4 Select and check tools, equipment and materials for serviceability 1.5 Clean work area and lay out for job requirements 1.6 Report problems with work area or operation of equipment to personnel as required
2. Prepare competition vehicle	2.1 Position and secure vehicle ready for servicing according to manufacturer specifications and workplace procedures

ELEMENTS	PERFORMANCE CRITERIA
	2.2 Remove temporary bungs and covers and conduct engine pre-start checks according to team procedures and safety and environmental requirements 2.3 Carry out pre-service inspection and preparation according to manufacturer specifications, workplace procedures and safety requirements 2.4 Report inspection findings according to workplace procedures, and report recommendations for service, repairs or adjustments
3. Service competition vehicle	3.1 Carry out service and adjustments according to manufacturer specifications, workplace procedures, and safety and environmental requirements, and without causing damage to components or systems 3.2 Start vehicle and systems, check pressures and temperatures for abnormal noise and leaks, according to team procedures and safety and environmental requirements 3.3 Check vehicle sub-assembly and systems operation according to team procedures and safety and environmental requirements 3.4 Shield vehicle components as required and according to team procedures 3.5 Document and report potential or existing problems to personnel as required and according to team procedures
4. Complete work processes	4.1 Conduct final inspection according to workplace procedures and confirm vehicle is ready for use 4.2 Clear work area and dispose of or recycle materials according to workplace procedures 4.3 Complete documentation according to workplace procedures

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

SKILL	DESCRIPTION
Learning	• Locates required sources of information efficiently • Applies team procedures to different situations and motor sport events.
Reading	• Interprets team instructions, category rules and supplementary regulations.

SKILL	DESCRIPTION
Numeracy	• Uses basic mathematical operations, including addition and subtraction, to measure and calculate fluid volumes using metric and imperial units of measurement • Interprets units of temperature and pressure.
Planning and organising	• Ensures that own tasks are carried out within team operation timeframes.

Unit Mapping Information

Supersedes and is equivalent to AURMTA001 Prepare and service light competition vehicles.

Links

Companion Volume Implementation Guide is found on VETNet -

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

Assessment Requirements for AURMTA101 Prepare and service light competition vehicles

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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:

- prepare and service two different light competition vehicles, each under 300 kg of unladen weight.

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 prepare and service light competition vehicles, including:
 - information provided by customer and supervisors
 - manufacturer specifications and procedures or equivalent documentation
- workplace procedures required to prepare and service light competition vehicles, including:
 - establishing serviceability of tools and equipment
 - documentation procedures
 - housekeeping procedures, including:
 - examination of tools and equipment
 - storage of equipment, surplus components and consumables
 - identification, tagging and isolation of faulty equipment
 - disposal of excess materials
 - recycling procedures
- work health and safety (WHS) requirements relating to preparing and servicing light competition vehicles, including procedures for:
 - selecting and using personal protective equipment (PPE)
 - identifying acceptable tolerance levels for noise, heat and fumes
 - methods of panel creation and their processes

- environmental requirements, including procedures for trapping, storing and disposing of fluids released during vehicle preparation
- team instructions, category rules and supplementary regulations relating to motor sport events
- competition vehicle servicing and preparation procedures, including:
 - work area and component layout procedures
 - cleaning methods and precautions
 - types of securing devices and securing methods
 - types of shielding devices and shielding methods
 - pre- and post-servicing adjustments, including procedures for checking:
 - electronic control units
 - data acquisition system components
 - communication equipment
 - circuit breakers, and relay and isolation switches
 - fuel tank and cell
 - pumps and reservoirs
 - fire bottles and controller
 - record keeping procedures
 - procedures for reporting equipment faults and component defects
 - engine pre-start checks
 - procedures for checking vehicle system pressures and temperatures
 - common types of abnormal noises and leaks
- procedures for checking and storing tools and equipment
- procedures for cleaning vehicles.

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 light competition vehicles that they have prepared and serviced, 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
- team instructions, category rules and supplementary regulations
- manufacturer light competition vehicle specifications
- personal and motor sport team safety procedures and requirements
- two different light competition vehicles requiring service

- tools, equipment and materials appropriate for inspecting, servicing and adjusting light competition vehicles.

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

Links

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