



Australian Government

AURMTA001 Prepare and service light competition vehicles

Release: 1

AURMTA001 Prepare and service light competition vehicles

Modification History

Release	Comment
Release 1	New unit of competency.

Application

This unit describes the performance outcomes 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.

It applies to those working in the motor sport industry. The light competition vehicles are under 300 kg of unladen weight, such as go-carts, motorcycles or jet skis.

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

Competency Field

Motor Sport

Unit Sector

Technical

Elements and Performance Criteria

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold and italicised text is used, further information is detailed in the range of conditions section.
1. Prepare for work	1.1 Job requirements are determined from team instructions, category rules and supplementary regulations 1.2 Servicing procedures and information are sourced 1.3 Hazards associated with the work are identified and risks are managed

Elements Elements describe the essential outcomes.	Performance Criteria Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold and italicised text is used, further information is detailed in the range of conditions section.
	1.4 Tools, equipment and materials are selected and checked for serviceability 1.5 Work area is cleaned and laid out for job requirements 1.6 Problems with work area or operation of equipment are reported to appropriate personnel as required
2. Prepare competition vehicle	2.1 Vehicle is positioned and secured ready for servicing according to manufacturer specifications and workplace procedures 2.2 Temporary bungs and covers are removed and engine pre-start checks are conducted according to team procedures and safety and environmental requirements 2.3 Pre-service inspection and preparation are carried out according to manufacturer specifications, workplace procedures and safety requirements 2.4 Inspection findings are reported according to workplace procedures, and recommendations for service, repairs or adjustments are reported
3. Service competition vehicle	3.1 Service and adjustments are carried out according to manufacturer specifications, workplace procedures, and safety and environmental requirements , and without causing damage to components or systems 3.2 Vehicle is started and systems, pressures and temperatures are checked for abnormal noise and leaks, according to team procedures and safety and environmental requirements 3.3 Vehicle sub-assembly and systems operation are checked according to team procedures and safety and environmental requirements 3.4 Vehicle components are shielded as required and according to team procedures 3.5 Potential or existing problems are documented and reported to appropriate personnel as required and according to team procedures
4. Complete work processes	4.1 Final inspection is made to ensure work is to workplace expectations and vehicle is cleaned and presented ready for use 4.2 Work area is cleaned, waste and non-recyclable material is disposed of and recyclable material is collected 4.3 Tools and equipment are checked and stored, and surplus components and consumables are packed and stored according to workplace procedures 4.4 Workplace documentation is processed according to workplace

Elements	Performance Criteria
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	procedures

Foundation Skills

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

Skills	Description
Learning skills to:	• apply team procedures to different situations and motor sport events.
Reading skills to:	• interpret team instructions, category rules and supplementary regulations.
Numeracy skills to:	• use basic mathematical operations, including addition and subtraction, to measure and calculate fluid volumes using metric and imperial units of measurement • interpret units of temperature and pressure.
Planning and organising skills to:	• ensure that own tasks are carried out within team operation timeframes.
Teamwork skills to:	• work as part of a team to ensure vehicle is prepared and maintained throughout event and time wastage is minimised.

Range of Conditions

This section specifies work environments and conditions that may affect performance.

Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included. Bold italicised wording, if used in the performance criteria, is detailed below.

Service must include:	• pre- and post-service 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
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	• pumps and reservoirs • fire bottles and controller.
<i>Safety and environmental requirements</i> must include:	• work health and safety (WHS) and occupational health and safety (OHS) requirements, including procedures for: • selecting and using personal protective equipment (PPE) • identifying acceptable tolerance levels for noise, heat and fumes • environmental requirements, including procedures for trapping, storing and disposing of fluids released during vehicle preparation.

Unit Mapping Information

Equivalent to AURMTA2001 Prepare and service a light competition vehicle

Links

Companion Volume implementation guides are found in VETNet -

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

Assessment Requirements for AURMTA001 Prepare and service light competition vehicles

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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:

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

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) 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
- 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
 - 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

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 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.

Links

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