



Australian Government

AURMTA104 Prepare competition vehicles at motor sport events

Release: 1

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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

Application

This unit describes the skills and knowledge required to perform competition vehicle preparations at a motor sport event. It involves preparing for the task, interpreting category and event team specifications, finalising technical preparations, conducting pre-race checks and post-race maintenance, and preparing a vehicle for scrutineering.

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 event information and check against 'on the day' operating conditions, and seek required clarification of specifications 1.2 Select and check tools and equipment for serviceability 1.3 Identify hazards associated with the work and manage risks 1.4 Clean work area and lay out for job requirements
2. Finalise technical preparation	2.1 Configure vehicle settings for each race 2.2 Report problems with work area or operation of equipment to persons according to team procedures as required 2.3 Propose modifications or adaptation of equipment as required according to team procedures

ELEMENTS	PERFORMANCE CRITERIA
	2.4 Document vehicle settings according to team procedures
3. Conduct pre-race checks	3.1 Carry out checks according to team checklists and without causing damage to components 3.2 Report problems with components or systems as required to persons according to team procedures
4. Prepare vehicle for scrutineering	4.1 Inspect vehicle systems and safety components according to regulatory body requirements, category rules and supplementary regulations 4.2 Identify and rectify problems with vehicle compliance according to team procedures as required 4.3 Report problems with vehicle compliance that cannot be rectified to persons according to team procedures as required
5. Conduct between-race maintenance	5.1 Inspect condition of components and systems according to team checklist, and repair or replace as required according to safety requirements and team procedures 5.2 Clean and refuel vehicle according to team procedures and safety and environmental requirements 5.3 Collect and log vehicle manual and electronic data according to team procedures 5.4 Conduct driver or rider technical debrief according to team procedures
6. Complete work processes	6.1 Conduct final inspection according to workplace procedures and confirm vehicle is ready for use 6.2 Clear work area and dispose of or recycle materials according to workplace procedures 6.3 Complete team and event 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.
Numeracy	Measures components and uses basic addition, subtraction, division and multiplication, to calculate tolerances and

SKILL	DESCRIPTION
	- clearances • Uses basic mathematical operations to calculate volume and area.
Reading	• Interprets team instructions, team checklists, regulatory body requirements, category rules and supplementary regulations.
Planning and organising	• Ensures that own tasks are carried out within team operation timeframes.
Problem solving	• Proposes modifications or adaptation of equipment to overcome preparation issues • Proposes possible solutions to compliance issues.
Self-management	• Works efficiently with minimal supervision.
Technology	• Navigates computer software and accesses and logs manual and electronic data.

Unit Mapping Information

Supersedes and is equivalent to AURMTA004 Perform competition vehicle preparation procedures at motor sports events.

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 AURMTA104 Prepare competition vehicles at motor sport events

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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 a different competition vehicle for at least two different motor sport events, one of which may be a simulated event.

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 competition vehicles at motor sport events, including:
 - information provided by customer and supervisors
 - team instructions
 - manufacturer specifications and procedures or equivalent documentation
 - category rules and supplementary regulations, including:
 - allowable design
 - quality
 - material, equipment and quantities
- workplace procedures required to prepare competition vehicles at motor sport events, 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 preparing competition vehicles at motor sport events, including procedures for:
 - selecting and using personal protective equipment (PPE)
 - using motor sport event safety equipment, including firefighting equipment
 - 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 and contaminants released during vehicle preparation
- technical preparation procedures, including procedures for configuring:
 - vehicle settings for individual events, including:
 - team specifications
 - baseline configurations
 - category rules and supplementary regulations
 - work area for individual events
- pre-race checking procedures
- vehicle scrutineering preparation procedures, including:
 - inspection techniques
 - regulatory body requirements, category rules and supplementary regulations
 - non-compliance rectification procedures
- between-race maintenance procedures, including:
 - inspection procedures
 - gear ratio calculations
 - cleaning and re-fuelling procedures
 - vehicle manual and electronic data collection and logging procedures
 - procedures for reporting and recording equipment and component defects
 - procedures for driver or rider technical debriefings
- post-race clean-up procedures, including:
 - work area and vehicle cleaning procedures
 - tool and equipment checking and storage procedures
- procedures for processing team and event documentation.

Assessment Conditions

Competency is to be assessed in the workplace, for one sanctioned event.

Other competencies are to be assessed in an automotive repair 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 competition vehicles that they have prepared, 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:

- two motor sport events, including one sanctioned event
- controlling body rules, category rules and supplementary regulations for the motor sport event
- personal and motor sport team safety procedures and requirements, including PPE
- two different motor sport competition vehicles
- tools, equipment and materials appropriate for preparing competition vehicles at a motor sport event.

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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