



Australian Government

AURMTA109 Collect and log motor sport data

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 collect and log motor sport data. It involves identifying data requirements, preparing for the task, collecting, logging, and evaluating data, and completing workplace documentation.

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. Identify motor sport data collection requirement	1.1 Determine job requirements from workplace instructions 1.2 Determine data specific requirements from team instructions and procedures and controlling body rules, category rules and supplementary regulations 1.3 Identify purpose and end users of data 1.4 Identify sources of data
2. Prepare resources for data collection	2.1 Develop checklists and recording sheets according to team procedures 2.2 Prepare manual instruments for data collection 2.3 Check electronic data acquisition system settings 2.4 Check and adjust equipment settings, calibration and system according to task requirements and equipment manufacturer

ELEMENTS	PERFORMANCE CRITERIA
	instructions 2.5 Conduct trial runs to check equipment and procedures and make required adjustments
3. Collect data	3.1 Carry out data acquisition system start-up procedure according to manufacturer procedures 3.2 Operate data acquisition system according to its designed capacity and purpose and to manufacturer specifications and safety requirements 3.3 Determine potential for inaccurate results arising from variables 3.4 Check data for accuracy according to manufacturer specifications 3.5 Report problems with required data or operation of equipment to persons as required
4. Log data	4.1 Import selected data into data analysis software according to manufacturer procedures 4.2 Evaluate data for preliminary indication of non-conformity and trends or patterns 4.3 Collate findings from data and report to persons according to team procedures 4.4 Store data for later retrieval according to team procedures
5. Complete work processes	5.1 Conduct final inspection according to workplace procedures and confirm vehicle is ready for use 5.2 Clear work area and dispose of or recycle materials according to workplace procedures 5.3 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 - Adapts to different race event conditions and vehicles.
Numeracy	Uses basic mathematical operations, including addition and subtraction, to calculate and compare numerical information with expected values.

SKILL	DESCRIPTION
Reading	• Determines data requirements from team instructions and procedures and controlling body rules, category rules and supplementary regulations • Interprets data acquisition system and data analysis software operating procedures from manufacturer instructions.
Technology	• Operates computer-based data acquisition systems and data analysis software • Connects and disconnects data acquisition system to vehicle without causing damage.

Unit Mapping Information

Supersedes and is equivalent to AURMTA009 Collect and log motor sport data.

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 AURMTA109 Collect and log motor sport data

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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:

- collect and log data at two different motor sport events, including at least one sanctioned motor sport event
- use both manual and electronic systems at each of the above events
- collect the following types of data at each of the above events:
 - vehicle data
 - weather data
 - circuit data
 - driver or rider characteristics.

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 collect and log motor sport data, including:
 - information provided by customer and supervisors
 - manufacturer specifications and procedures or equivalent documentation
 - controlling body rules, category rules and supplementary regulations
 - computer-based data and data analysis software
- workplace procedures required to collect and log motor sport data, 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 collecting and logging motor sport data, including procedures for:
 - identifying hazards and managing risks
 - identifying acceptable tolerance levels for noise, heat and fumes
- motor sport data acquisition systems, including:
 - types, characteristics, components, uses and limitations
 - types of motor sport data, including data irregularities and tolerance levels
 - end users of motor sport data
 - manual data collection and logging methods
 - electronic data collection and logging methods
- types of data analysis software, including:
 - methods of importing data and performing preliminary data evaluation
 - methods of collating, reporting and recording data findings
- data acquisition system inspection, maintenance and system check procedures, including:
 - checks for function
 - checks for accuracy
 - checks for efficiency.

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 motor sport data they have collected and logged, 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 different motor sport events, including one sanctioned event
- motor sport vehicle
- manual motor sport data acquisition system, including:
 - stopwatches
 - tyre pyrometer
 - weather station
- electronic motor sport data acquisition system, including data analysis software.

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

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