



Australian Government

AURMTA009 Collect and log motor sport data

Release: 1

AURMTA009 Collect and log motor sport data

Modification History

Release	Comment
Release 1	New unit of competency.

Application

This unit describes the performance outcomes 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.

It 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.

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. Identify motor sport data collection requirement	1.1 Job requirements are determined from workplace instructions 1.2 Data specific requirements are determined from team instructions and procedures and controlling body rules, category rules and supplementary regulations 1.3 Purpose and end users of data are identified 1.4 Sources of data are identified

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.
2. Prepare resources for data collection	2.1 Checklists and recording sheets are developed according to team procedures 2.2 Manual instruments are prepared for data collection 2.3 Electronic data acquisition system settings are checked 2.4 Equipment settings, calibration and system are checked and adjusted according to task requirements and equipment manufacturer instructions 2.5 Trial runs are conducted to <i>check</i> equipment and procedures and required adjustments are made
3. Collect data	3.1 Data acquisition system start-up procedure is carried out according to manufacturer procedures 3.2 Data acquisition system is operated according to its designed capacity and purpose and to manufacturer specifications and <i>safety requirements</i> 3.3 Potential for inaccurate results arising from variables is determined 3.4 Data is checked for accuracy according to manufacturer specifications 3.5 Problems with required data or operation of equipment are reported to appropriate persons as required
4. Log data	4.1 Selected data is imported into data analysis software according to manufacturer procedures 4.2 Data is evaluated for preliminary indication of non-conformity and trends or patterns 4.3 Findings from data are collated and reported to appropriate persons according to team procedures 4.4 Data is stored for later retrieval according to team procedures
5. Complete work processes	5.1 Final inspection is made to ensure work is to workplace expectations and data is presented ready for use 5.2 Data recording equipment is checked and stored according to workplace procedures 5.3 Workplace documentation is processed according to workplace 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:	- locate appropriate sources of information efficiently - adapt to different race event conditions and vehicles.
Reading skills to:	- determine data requirements from team instructions and procedures and controlling body rules, category rules and supplementary regulations - interpret data acquisition system and data analysis software operating procedures from manufacturer instructions.
Writing skills to:	legibly and accurately fill out workplace documentation when reporting data analysis findings.
Numeracy skills to:	use basic mathematical operations, including addition and subtraction, to calculate and compare numerical information with expected values.
Digital literacy skills to:	operate computer-based data acquisition systems and data analysis software.
Technology skills to:	connect and disconnect data acquisition system to vehicle without causing damage.

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.

<i>Checking</i> must include:	- function - accuracy - efficiency.
<i>Safety requirements</i> must include:	- work health and safety (WHS) and occupational health and safety (OHS) requirements, including procedures for: - identifying hazards and managing risks - identifying acceptable tolerance levels for noise, heat and fumes.

Unit Mapping Information

Equivalent to AURMTA3009 Collect and log motorsport data

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 AURMTA009 Collect and log motor sport data

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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:

- collect and log data at two different motor sport events, including at 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

Individuals must be able to demonstrate knowledge of:

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

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 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.

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