



Australian Government

AURMTA006 Perform torquing and fastening on motor sport competition vehicles

Release: 1

AURMTA006 Perform torquing and fastening on motor sport competition vehicles

Modification History

Release	Comment
Release 1	New unit of competency.

Application

This unit describes the performance outcomes required to torque and fasten motor sport competition vehicle components according to supplier and team specifications. It involves preparing for the task, selecting tools, fastening and securing components, and completing workplace processes and 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

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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.

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. Prepare for work	1.1 Job requirements are determined from workplace instructions 1.2 Component supplier and team torquing and fastening specifications are sourced and interpreted 1.3 Tools and equipment are selected and checked for serviceability 1.4 Work area is cleaned and laid out for job requirements according to team procedures 1.5 Hazards associated with the work are identified and risks are managed 1.6 Problems with work area and operation of tools and equipment are reported to appropriate persons according to team procedures as required
2. Fasten components	2.1 Components to be fastened are inspected, prepared and assembled using gaskets, sealants, adhesives or lubricants as required and according to manufacturer specifications, workplace procedures, and <i>safety and environmental requirements</i> 2.2 Components are installed and checked, and fasteners are tensioned according to team and <i>manufacturer procedures</i> 2.3 Mechanical fastener securing devices are fitted according to team and manufacturer procedures 2.4 Sealant and liquid locking adhesive cure times are observed according to team and manufacturer specifications as required 2.5 Component fastening problems are reported to appropriate persons according to team procedures as required
3. Complete work processes	3.1 Final inspection is made to ensure work is to workplace expectations and vehicle is presented ready for use 3.2 Work area is cleaned, waste and non-recyclable materials are disposed of, and recyclable material is collected 3.3 Tools and equipment are checked and stored according to workplace procedures 3.4 Workplace documentation is processed according to team 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.
Reading skills to:	- interpret workplace instructions - interpret manufacturer specifications relating to torquing, fastener securing device, and sealant and liquid locking adhesives.
Writing skills to:	legibly and accurately fill out workplace documentation.
Oral communication skills to:	- clarify instructions - report problems in work area, tools, equipment and component fastening.
Numeracy skills to:	interpret angle and torque units of measurement.

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>Safety and environmental requirements</i> must include:	- work health and safety (WHS) and occupational health and safety (OHS) requirements, including procedures for working safely with sealants, adhesives, lubricants and greases - environmental requirements, including procedures for trapping, storing and disposing of excess materials released during application of sealants and adhesives.
<i>Manufacturer procedures</i> must include:	- stages and sequence of torquing - torque settings.

Unit Mapping Information

Equivalent to AURMTA3006 Perform torquing and fastening

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 AURMTA006 Perform torquing and fastening on motor sport 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:

- torque the fasteners of three different competition vehicle components or sub-assemblies
- secure fasteners on six different competition vehicle components or sub-assemblies.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to torquing and fastening on motor sport competition vehicles, including procedures for working safely with sealants, adhesives, lubricants and greases
- environmental requirements, including procedures for trapping, storing and disposing of excess materials released during application of sealants and adhesives
- types, characteristics, uses and limitations of fasteners used in motor sport and performance enhancement, including:
 - clips, pins and clamps, nuts and bolts, and screws
 - material stress
- types, characteristics, uses and limitations of mechanical and liquid chemical fastener securing locking devices, including:
 - lock wire and lock tabs
 - liquid locking compounds and adhesives
 - shelf life expiry
- principles, applications, methods and techniques for torquing
- procedures for preparing competition vehicle components for assembly.

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 torquing and fastening they have performed on motor sport competition vehicles, 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
- workplace instructions
- fasteners, locking devices, liquid locking compounds and adhesives
- manufacturer torquing and fastening specifications
- three different competition vehicle components or sub-assemblies that require torquing of their fasteners
- six different competition vehicle components or sub-assemblies that require fastening to other components.

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