



**Australian Government**

# **Assessment Requirements for MEM27013 Maintain steering systems**

**Release: 1**

# Assessment Requirements for MEM27013 Maintain steering systems

## Modification History

Release 1. Supersedes and is equivalent to MEM18041B Maintain steering systems

## Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy the requirements of the elements and performance criteria on at least two (2) occasions and include:

- following work instructions, standard operating procedures (SOPs) and safe work practices
- identifying and interpreting specifications, charts, lists, drawings and other applicable reference documents to maintain steering systems
- checking and testing steering system for compliance to specifications using appropriate tools, test equipment and techniques
- recording all test results and measurements in accordance with SOPs
- measuring steering system components using appropriate tools, equipment and techniques
- undertaking calculations and numerical operations associated with maintaining steering systems
- removing/refitting steering system components and selecting replacement parts using manufacturer catalogues and data
- aligning wheels and axles and adjusting steering system to specifications
- recording/reporting all service/work activities in accordance with SOPs.

## Knowledge Evidence

Evidence required to demonstrate the required knowledge for this unit must be relevant to and satisfy the requirements of the elements and performance criteria and include knowledge of:

- safe work practices and procedures and use of personal protective equipment (PPE)
- operation of the steering system and its components
- procedures for:
  - testing steering system performance and tests to be undertaken
  - checking components for wear and clearance
  - removing and refitting steering system components and precautions to be taken
  - adjusting the alignment of wheels and axles if available on the equipment
  - recording test and rectification activities
  - adjusting primary and emergency steering systems and the effect this causes on the steering system specifications

- tools, techniques and equipment necessary to maintain and rectify steering systems and reasons for selection
- precautions to be taken when testing steering systems and procedures for recording test results
- identification of faulty components and reasons for the corrective action to be taken
- parameter determining suitability of repair or replacement of components and component parts
- operation of power and power assisted steering systems
- effects of toe in and other available wheel/axle alignments on steering system operation
- measuring equipment to be used.

## Assessment Conditions

- Assessors must:
  - have vocational competency in maintaining steering systems at least to the level being assessed with relevant industry knowledge and experience
  - satisfy the assessor requirements in the *Standards for Registered Training Organisations 2015* or its replacement and comply with the *National Vocational Education and Training Regulator Act 2011*, its replacement or equivalent legislation covering VET regulation in a non-referring state/territory as the case requires
- Where possible assessment must occur in operational workplace situations. Where this is not possible or where personal safety or environmental damage are limiting factors, assessment must occur in a sufficiently rigorous simulated environment that reflects realistic operational workplace conditions. This must cover all aspects of workplace performance, including environment, task skills, task management skills, contingency management skills and job role environment skills
- Conditions for assessment must include access to all tools, equipment, materials and documentation required, including relevant workplace procedures, product and manufacturing specifications
- Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

## Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b7050d37-5fd0-4740-8f7d-3b7a49c10bb2>