



Australian Government

**Assessment Requirements for MEM20020
Use EEPROM programmers to service
automotive transponder systems**

Release: 1

Assessment Requirements for MEM20020 Use EEPROM programmers to service automotive transponder systems

Modification History

Release 1. Supersedes but is not equivalent to MEM20013 Service automotive transponder 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 and include:

- following work instructions, standard operating procedures (SOPs) and safe work practices
- interpreting information specific for servicing automotive transponder systems, including binary and hexadecimal code
- questioning, confirming and clarifying customer requirements
- identifying automotive transponder components and associated equipment and checking functioning of transponder systems
- using appropriate tools and equipment including to service automotive transponder systems
- identifying actual and potential risks and hazards
- establishing program requirements, programming electrically erasable programmable read-only memory (EEPROM) to correct specification, and testing system for conformance on at least two occasions
- completing all documentation in accordance with SOPs.

Note: Where a volume and/or frequency is not specified, demonstration must be provided at least once.

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)
- system and component specifications and principles of operation
- sources of specifications and other relevant information for automotive transponder systems
- types of transponders and technical terminology used
- common design problems and faults arising from misuse and wear
- organisational procedures for establishing service requirements
- operation and function of transponder and engine immobiliser systems
- applicable legislation, codes, regulations and standards and work health and safety (WHS) policies, procedures and practices

- tools and equipment used
- factors impacting on feasibility of repair or replacement
- organisational requirements for cleaning and storage
- key blanks to suit model and mechanical and electronic part of lock
- different types of transponder technologies
- programming and operating procedures for encoder or diagnostic machine
- documentation and recording procedures
- hazards and control measures associated with servicing automotive transponder systems including housekeeping.
-

Assessment Conditions

- Assessors must:
 - have vocational competency in using EEPROM programmers to service automotive transponder 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 that 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>