



Australian Government

MEM20018 Identify and program transponder keys

Release: 1

MEM20018 Identify and program transponder keys

Modification History

Release 1. Supersedes but is not equivalent to MEM20013 Service automotive transponder systems.

Application

This unit of competency defines the skills and knowledge required to identify, analyse, encode and re-encode (program) automotive transponder keys.

It applies to locksmiths programming automotive transponder keys and associated high security transponder requirements.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Band: This unit has dual status and is to be regarded as both a Specialisation band A unit and Specialisation band B unit for progression to C5 (AQF level V).

Unit Weight: 2

Pre-requisite Unit

MEM13015 Work safely and effectively in manufacturing and engineering

MEM16006 Organise and communicate information

MEM20016 Produce keys by cutting to code

MEM20017 Produce keys by duplication

Competency Field

Locksmithing

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. Determine job requirements	1.1 Follow standard operating procedures (SOPs) and comply with work, health and safety (WHS) requirements at all times 1.2 Obtain system and component specifications and other relevant information from appropriate sources and in accordance with organisational and customer requirements

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.3 Establish cloning requirements and other information relevant to task in accordance with customer needs, organisational and manufacturer specifications and legislation, codes, regulations and standards
2. Prepare to program transponder key	2.1 Select and use appropriate personal protective equipment (PPE) 2.2 Identify risks and hazards and make area safe 2.3 Select tools, equipment, materials and consumables, check for serviceability and use in accordance with manufacturer specifications and SOPs
3. Program transponder keys	3.1 Identify personal limitations in programming and seek assistance from appropriate sources 3.2 Establish programming requirements in accordance with SOPs and supplier requirements 3.3 Program keys to correct specification 3.4 Test system function to ensure correct operation
4. Finalise servicing process	4.1 Complete documentation, and process in accordance with legislative and organisational requirements 4.2 Clean work area, tools and equipment and store in accordance with SOPs

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance.

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

This field allows for different 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.

Appropriate sources of	• catalogues
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information include one or more of the following:	• manufacturer manuals • drawings • detailed sketches • technical sketches • associated data sheets • industry software and websites.
Risks and hazards include one or more of the following:	• non-compliance with manufacturer recommendations • materials handling • environmental • physical hazards.
Associated equipment includes one or more of the following:	• electronic immobilisers • transponder sniffing • snoop tools • desktop programmers • hand-held programmers.
Tools and equipment include one or more of the following:	• hand tools • identifying and encoding equipment.
Documentation includes one or more of the following:	• job sheets • invoices • warranties.

Unit Mapping Information

No equivalent unit.

Links

Companion Volume implementation guides are found in VETNet -

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

Assessment Requirements for MEM20018 Identify and program transponder keys

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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
- questioning, confirming and clarifying customer requirements
- using appropriate tools and equipment to identify and program transponder keys on at least two occasions
- identifying actual and potential risks and hazards
- establishing program requirements, programming keys 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)
- 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 work health and safety (WHS) policies, procedures and practices
- tools and equipment used
- factors impacting on feasibility of repair or replacement
- key blanks to suit model and mechanical and electronic part of lock
- programming and operating procedures for identifier or encoder machine
- documentation and recording procedures

- hazards and control measures associated with servicing automotive transponder systems including housekeeping.
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Assessment Conditions

- Assessors must:
 - have vocational competency in identifying and programming transponder keys 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.
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