



**Australian Government**

# **MEM20010 Gain entry and reinstate automotive locking systems**

**Release: 1**

# MEM20010 Gain entry and reinstate automotive locking systems

## Modification History

Release 1. Supersedes and is equivalent to MEM20010A Gain entry and reinstate automotive locking systems

## Application

This unit of competency defines the skills and knowledge required to gain entry to all types of automobiles fitted with mechanical and/or electronic locking systems, and covers straightforward reinstatement of the vehicle locking system by removal and replacement of component parts.

Where interpretation of detailed, complex manufacturer information and specifications is required unit MEM16012 Interpret technical specifications and manuals should also be selected.

Where repairs greater than straightforward remove and replace are required unit MEM20012 Service and repair mechanical automotive locking systems should also be selected.

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

**Band: A**

**Unit Weight: 4**

## Pre-requisite Unit

|          |                                                              |
|----------|--------------------------------------------------------------|
| MEM13015 | Work safely and effectively in manufacturing and engineering |
| MEM16006 | Organise and communicate information                         |
| MEM18001 | Use hand tools                                               |
| MEM20001 | Produce keys                                                 |
| MEM20002 | Assemble and test lock mechanisms                            |
| MEM20004 | Gain entry                                                   |

## Competency Field

Locksmithing

## Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

- |   |                                                                  |     |                                                                                                                                                                             |
|---|------------------------------------------------------------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | <b>Determine job requirements</b>                                | 1.1 | Follow standard operating procedures (SOPs)                                                                                                                                 |
|   |                                                                  | 1.2 | Comply with work health and safety (WHS) requirements at all times                                                                                                          |
|   |                                                                  | 1.3 | Select and use appropriate personal protective equipment (PPE) in accordance with SOPs                                                                                      |
|   |                                                                  | 1.4 | Identify job requirements from specifications, job sheets or work instructions                                                                                              |
| 2 | <b>Establish entry requirements to automotive locking system</b> | 2.1 | Establish the reason for entry                                                                                                                                              |
|   |                                                                  | 2.2 | Verify authenticity of request in accordance with organisational and industry procedures                                                                                    |
|   |                                                                  | 2.3 | Establish nature of problem and circumstances of prior operation in accordance with SOPs, inspection/diagnostic techniques and original specifications                      |
|   |                                                                  | 2.4 | Identify vehicle, locking system and other relevant information from appropriate sources and in accordance with organisational and customer requirements                    |
|   |                                                                  | 2.5 | Obtain and interpret specifications for components from appropriate sources of information                                                                                  |
| 3 | <b>Gain entry to vehicle</b>                                     | 3.1 | Select appropriate entry method in accordance with specific circumstances, customer requirements and SOPs                                                                   |
|   |                                                                  | 3.2 | Select tools, equipment, materials and consumables appropriate to entry requirements and check for serviceability in accordance with manufacturers' specifications and SOPs |
|   |                                                                  | 3.3 | Use selected tools to gain entry using appropriate industry practices                                                                                                       |
|   |                                                                  | 3.4 | Gain entry in accordance with applicable legislation, codes, regulations and standards                                                                                      |

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- |   |                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4 | <b>Re-instate automotive locking components and system</b> | <p>4.1 Select replacement or repaired parts reassembly, where applicable</p> <p>4.2 Dismantle/remove lock assemblies and components using appropriate organisational procedures, industry practices, tools and equipment</p> <p>4.3 Inspect sub-assemblies, test and adjust as necessary for compliance to original factory assembly and functioning</p> <p>4.4 Apply appropriate techniques in the preparation, assembly and adjustment of components parts using fastening equipment and methods that ensure conformance to specifications, operational performance, quality and safety of the completed assembly</p> <p>4.5 Select correct lubrication, packing, sealing materials and apply correctly in conformance to job specifications</p> <p>4.6 Inspect locking system, test and adjust as necessary for compliance to original factory assembly and functioning</p> |
| 5 | <b>Finalise entry and reinstatement process</b>            | <p>5.1 Complete documentation and process in accordance with legislative and organisational requirements</p> <p>5.2 Clean work area, tools and equipment and store in accordance with SOPs</p> <p>5.3 Clean vehicle and return to serviceable condition</p> <p>5.4 Advise customer of work undertaken and further recommended actions and any other relevant information</p> <p>5.5 Instruct customer, as necessary, in accordance with organisational procedures and manufacturer recommendations</p>                                                                                                                                                                                                                                                                                                                                                                         |

## Foundation Skills

This section describes those required skills (reading, writing, oral communication and numeracy) that are essential to workplace performance in this unit of competency.

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.

**PPE includes one (1) or more of the following:**

- face shields, goggles and safety glasses
- hearing protection
- dust masks and respirators
- high visibility vests or clothing
- head protection
- sun protection, hats and sun screen
- gloves and knee pads
- safety footwear
- witches hats
- warning signs and warning tapes
- temporary safety barriers
- fire extinguisher
- first aid kit

**Appropriate sources of information include one (1) or more of the following:**

- catalogues
- manufacturer manuals
- drawings
- detailed/technical sketches
- colleagues/industry experts
- computer software
- associated data sheets

**Customer requirements include one (1) or more of the following:**

- function and capabilities
- access issues
- service and maintenance requirements
- product operation and warranty information
- costings

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**Entry method includes one (1) or more of the following:**

- pick
- impressioning
- reading
- manipulating linkages
- alternative methods

**Tools and equipment include one (1) or more of the following:**

- hand and power tools specific to gaining entry
- power tools and accessories
- diagnostic specialist equipment
- fixing tools
- special-purpose equipment
- vacuum cleaner

**Materials and consumables include one (1) or more of the following:**

- lubricants
- adhesives and sealants
- cleaning materials
- wire and cable

**Documentation includes one (1) or more of the following:**

- historical records
- procedures and measurements for opening specific vehicles
- job sheets
- invoices
- warranties

## Unit Mapping Information

Release 1. Supersedes and is equivalent to MEM20010A Gain entry and reinstate automotive locking systems

## Links

Companion Volume implementation guides are found in VETNet -

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