



**Australian Government**

# **MEM10005 Commission programmable controller programs**

**Release: 1**

# MEM10005 Commission programmable controller programs

## Modification History

Release 1. Supersedes and is equivalent to MEM10005B Commission programmable controller programs

## Application

This unit of competency defines the skills and knowledge required to adjust and commission the programmable controller program to specification. It applies to all programmable controller programs include single and multi-loop programs and control sequencing of processes.

Work is undertaken on location and it is assumed that this unit will normally be accessed in conjunction with units of skill that relate to the operational processes controlled by the programmable controllers, including programmable logic controller (PLC) and distributed control system (DCS) or similar devices.

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

**Band: A**

**Unit Weight: 4**

## Pre-requisite Unit

MEM09002	Interpret technical drawing
MEM10004	Enter and change programmable controller operational parameters
MEM13015	Work safely and effectively in manufacturing and engineering
MEM16006	Organise and communicate information
MEM16008	Interact with computing technology

## Competency Field

Installation and commissioning

## Elements and Performance Criteria

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

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- |   |   |     |  |
|---|---|-----|--|
| 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 | Identify job requirements from specifications, drawings, job sheets or work instructions                           |
| 2 | <b>Commission programmable controller program</b> | 2.1 | Determine and understand program format and operational intent   |
|   |   | 2.2 | Check program instructions for compliance with specifications using appropriate techniques                         |
|   |   | 2.3 | Set software timers and counters to specifications, where required   |
|   |   | 2.4 | Ensure program is stepped through manually and outputs are checked and measured for compliance with specifications |
|   |   | 2.5 | Edit program to meet specifications, where applicable  |
|   |   | 2.6 | Check external inputs for compliance with specifications utilising correct and appropriate techniques              |
|   |   | 2.7 | Run program and check total operation for compliance with specifications, where applicable                         |
|   |   | 2.8 | Undertake final adjustments to meet operational specifications using procedures, where applicable                  |

## 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.

- Specifications include one (1) or more of the following:**
- circuit drawings
  - ladder diagrams
  - engineering data sheets
  - program print-out manufacturers' procedures
  - data books

## Unit Mapping Information

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## Links

Companion Volume implementation guides are found in VETNet -  
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b7050d37-5fd0-4740-8f7d-3b7a49c10bb2>