



**Australian Government**

# **MEM10004 Enter and change programmable controller operational parameters**

**Release: 1**

# MEM10004 Enter and change programmable controller operational parameters

## Modification History

Release 1. Supersedes and is equivalent to MEM10004B Enter and change programmable controller operational parameters

## Application

This unit of competency defines the skills and knowledge required to enter and change programmable controller operational parameters.

Work is generally undertaken at location of programmable controllers including, programmable logic controller (PLC) and distributed control system (DCS) or similar devices but could be undertaken with data link offsite.

Where the selection and use of engineering measuring equipment is required see unit MEM12023 Perform engineering measurements.

Where routine downloading of PLC, robot, computer numerically controlled (CNC) or numerically controlled (NC) programs from disk, tape or direct means not requiring program or data adjustment or checks against specification is required see unit MEM16008 Interact with computing technology.

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

**Band: A**

**Unit Weight: 2**

## Pre-requisite Unit

MEM09002	Interpret technical drawing
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.

- |   |   |     |  |
|---|---|-----|--|
| 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>Install program</b>                          | 2.1 | Download software, as required   |
|   |   | 2.2 | Undertake appropriate checks during and after downloading to ensure data transfer is accurate and complete   |
|   |   |     |  |
| 3 | <b>Verify machine/system/ process operation</b> | 3.1 | Undertake appropriate checks after downloading to ensure machine operation or process output is accurate to specification  |
|   |   | 3.2 | Ensure specific problems in machine operation or process output being controlled by the programmable controller are identified in accordance with SOPs           |
|   |   | 3.3 | Ensure specific changes required to operating parameters within the software program are derived in accordance with manufacturers' specifications and procedures |
|   |   | 3.4 | Make adjustments/changes to operating parameters in accordance with manufacturers' specifications  |
|   |   | 3.5 | Take final check of machine operation and/or process output to ensure that they are in accordance with specifications  |
|   |   | 3.6 | Report changes and adjustments in accordance with SOPs   |

## 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.

**Verify includes the following:**

- verification of machine/process/system operation, including interpreting the program, excluding multi-loop and control sequencing programs

**Operating parameters include one (1) or more of the following:**

- timer settings
- counter settings
- set point settings
- specifications and procedures gained from:
  - a range of circuit drawings
  - engineering data sheets
  - step print out
  - manufacturers' procedure
  - data books

## Unit Mapping Information

Release 1. Supersedes and is equivalent to MEM10004B Enter and change programmable controller operational parameters

## Links

Companion Volume implementation guides are found in VETNet -

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