



Australian Government

MEM30027 Prepare basic programs for programmable logic controllers

Release: 1

MEM30027 Prepare basic programs for programmable logic controllers

Modification History

Release 1. Supersedes and is equivalent to MEM30027A Prepare basic programs for programmable logic controllers.

Application

This unit of competency defines the skills and knowledge required to write, test, edit and monitor programs using a program loader.

The unit applies to engineering or related activities and is suitable for people giving technical support in manufacturing or engineering operations and those pursuing technical qualifications and careers at paraprofessional or technician level. All work is carried out under supervision.

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

Competency Field

Engineering technician

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. Write and test basic programs using a program loader	1.1 Follow standard operating procedure (SOPs) and comply with work health and safety (WHS) requirements at all times 1.2 Write programs in response to workplace needs 1.3 Follow device procedures to load programs into a programmable logic controller 1.4 Verify and test programs and their operation with assistance from supervisor
2. Edit and monitor basic programs using a program loader	2.1 Use the monitoring function to verify circuit conditions and check the current values of timers and counters 2.2 Use editing features to make minor program changes

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.

Programs include:

- series elements
- parallel elements
- combination series parallel elements
- basic timers and counters.

Unit Mapping Information

Release 1. Supersedes and is equivalent to MEM30027A Prepare basic programs for programmable logic controllers.

Links

Companion Volume implementation guides are found in VETNet -

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