



Australian Government

MEM07040 Set multistage integrated processes

Release: 1

MEM07040 Set multistage integrated processes

Modification History

Release 1. Supersedes and is equivalent to MEM07040A Set multistage integrated processes

Application

This unit of competency defines the skills and knowledge required to set, according to defined procedures, a wide range of continuous process lines and processes, where operations are performed by machines and equipment that are sequentially linked and involves process lines and robot cells.

Where the selection and use of power tools/hand held operations is required unit MEM18002 Use power tools/hand held operations should also be selected.

Where setting or adjustment of numerical control (NC) and computer numerical control (CNC) or programmable logic control (PLC) is required appropriate units should also be selected.

Where robot operation, editing and/or programming skills is required appropriate units should also be selected.

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

Band: A

Unit Weight: 6

Pre-requisite Unit

MEM09002	Interpret technical drawing
MEM11011	Undertake manual handling
MEM12023	Perform engineering measurements
MEM13015	Work safely and effectively in manufacturing and engineering
MEM14006	Plan work activities
MEM16006	Organise and communicate information
MEM16008	Interact with computing technology
MEM18001	Use hand tools

Competency Field

Machine and process operations

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 | Determine job requirements | 1.1 | Follow standard operating procedures (SOPs) |
| | | 1.2 | Comply with work health and safety (WHS) requirements at all times |
| | | 1.3 | Use appropriate personal protective equipment (PPE) in accordance with SOPs |
| | | 1.4 | Identify job requirements from specifications, drawings, job sheets or work instructions |
| | | | |
| 2 | Set process line | 2.1 | Use tools and equipment in a safe manner according to SOPs |
| | | 2.2 | Set up process line to specifications in accordance with SOPs |
| | | 2.3 | Set up all sensors, process links, displays, monitors and feedback loops to specifications |
| | | 2.4 | Check all safety apparatus for correct position and operation |
| | | 2.5 | Run process line to meet predetermined production and quality requirements |
| | | 2.6 | Adjust process line to meet specifications and operational requirements, as required |
| | | 2.7 | Instruct operator(s), as required |

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, accessibility of the item, and local industry and regional contexts) are included.

Processes include one (1) or more of the following:

- mechanical assembly operations and processes
- electrical/electronic assembly operations and processes, such as:
 - welding
 - testing
 - insertion
 - filling
 - printing
 - hot stamping

Safety apparatus includes one (1) or more of the following:

- guards
- PPE
- emergency switches

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>

Assessment Requirements for MEM07040 Set multistage integrated processes

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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 on at least two (2) occasions and include:

- following work instructions, standard operating procedures (SOPs) and safe work practices
- identifying and interpreting specifications, drawings and other applicable reference documents relating to setting multistage continuous process lines
- using appropriate hand tools and equipment
- setting the process line and trialling to ensure it operates safely and to specifications, adjusting as required
- entering routine and familiar information onto proformas and standard workplace forms
- instructing process line operators on correct operational procedures.

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)
- communication strategies for giving clear instruction to process line operators
- specifications and sequencing that apply to given process lines
- interpretation of feedback from machine process
- specifications applicable to the sensors, process links, displays, monitors and feedback loops incorporated in the process line
- correct operation and specification for all safety apparatus incorporated in the process line
- product specifications and quality and production requirements
- effect of process line adjustments on product and operational specifications
- process line operator procedures.

Assessment Conditions

- Assessors must:
 - have vocational competency in setting multistage integrated processes 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. This must 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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