



Australian Government

Department of Education, Employment and Workplace Relations

MEM07040A Set multistage integrated processes

Release: 1

MEM07040A Set multistage integrated processes

Modification History

Not Applicable

Unit Descriptor

Unit descriptor	This unit covers setting, according to defined procedures, a wide range of processes that incorporate checking of sensors, process links, displays, monitors, feedback loops etc.
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Application of the Unit

Application of the unit	This unit applies to setting a wide range of continuous process lines and processes, where operations are performed by machines and equipment that are sequentially linked. This may include process lines and robot cells. This may also include mechanical assembly operations, electrical/electronic assembly operations and processes such as welding, testing, insertion, filling, printing, hot stamping etc. Where setting or adjustment of numerical control (NC) /computer numerical control (CNC) or programmable logic control (PLC) is required, then appropriate units should be selected. If robot operation, editing and/or programming skills are required, appropriate units should also be selected. Band: A Unit Weight: 6
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Licensing/Regulatory Information

Not Applicable

Pre-Requisites

Prerequisite units		
Path 1	MEM09002B	Interpret technical drawing
	MEM12023A	Perform engineering measurements
	MEM14005A	Plan a complete activity
	MEM16006A	Organise and communicate information
	MEM16008A	Interact with computing technology
	MEM18001C	Use hand tools

Employability Skills Information

Employability skills	This unit contains employability skills.
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Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.
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Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Determine process	1.1. Job sheets/instructions are interpreted and understood.
2. Select and use a range of hand tools and equipment	2.1. Hand tools and equipment are used in a safe manner in accordance with standard operating procedures.
3. Set process line	3.1. Process line is set up to specifications in accordance with standard operating procedures. 3.2. All sensors, process links, displays, monitors, feedback loops etc. are set up to specifications using standard operating procedures. 3.3. All safety apparatus is in place and checked for correct operation. 3.4. Process line is run to meet predetermined production and quality requirements. 3.5. Process line is adjusted to meet specifications and operational requirements. 3.6. Operator(s) are instructed as required.

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit.

Required skills

Look for evidence that confirms skills in:

- reading and interpreting routine information on written job instructions, specifications and standard operating procedures. May include drawings related to setting multistage continuous process lines
- using specialist tools
- coordinating the running of multi-process lines
- entering routine and familiar information onto proformas and standard workplace forms
- verbally conveying information/instructions

Required knowledge

Look for evidence that confirms knowledge of:

REQUIRED SKILLS AND KNOWLEDGE

- communication strategies for giving clear instruction
- specifications and sequencing that apply to given process lines
- interpretation of feedback from machine process
- specifications applicable to the sensors, process links, displays, monitors, feedback loops etc. 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
- the effect of process line adjustments on product and operational specifications
- operator procedures
- use and application of personal protective equipment
- safe work practices and procedures
- hazards and control measures associated with setting of multistage continuous process lines

Evidence Guide

EVIDENCE GUIDE

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

Overview of assessment

A person who demonstrates competency in this unit must be able to set, in accordance with determined procedures, a wide range of continuous process lines. Competency in this unit cannot be claimed until all prerequisites have been satisfied.

Critical aspects for assessment and evidence required to demonstrate competency in this unit

Assessors must be satisfied that the candidate can competently and consistently perform all elements of the unit as specified by the criteria, including required knowledge, and be capable of applying the competency in new and different situations and contexts.

Context of and specific resources for assessment

This unit may be assessed on the job, off the job or a combination of both on and off the job. Where assessment occurs off the job, that is the candidate is not in productive work, then an appropriate simulation must be used where the range of conditions reflects realistic workplace situations. The competencies covered by this unit would be demonstrated by an individual working alone or as part of a team. The assessment environment should not disadvantage the candidate.

This unit could be assessed in conjunction with any other units addressing the safety, quality, communication, materials handling, recording and reporting associated with setting multistage continuous process lines or other units requiring the exercise of the skills and knowledge covered by this unit.

Method of assessment

Assessors should gather a range of evidence that is valid, sufficient, current and authentic. Evidence can be gathered through a variety of ways including direct observation, supervisor's reports, project work, samples and questioning. Questioning techniques should not require language, literacy and numeracy skills beyond those required in this unit of competency. The candidate must have access to all tools, equipment, materials and documentation required. The candidate must be permitted to refer to any relevant workplace procedures, product and manufacturing specifications, codes, standards, manuals and reference materials.

EVIDENCE GUIDE**Guidance information for assessment****Range Statement****RANGE STATEMENT**

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

Job sheets/instructions

Written and verbal job instructions, specifications and standard operating procedures. May include drawings related to setting multistage continuous process lines

Safety apparatus

Guards, personal protective equipment, emergency switches

Unit Sector(s)**Unit sector****Co-requisite units****Co-requisite units**

Competency field

Competency field	Machine and process operations
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