

Course Outline
MEM30105 - Certificate III in Engineering
Production Systems

Packaging Rules

To gain a Certificate III qualification, the minimum requirements are:

- Completion of all of the Mandatory units of competency listed below, and
- Completion of Production stream units from the list below to the value of at least 40 points, and
- Completion of Specialisation units from the list below to bring the total value of Production stream and Specialisation units to at least 76 points.

Code	Mandatory Units	Points
MEM12023A	Perform engineering measurements This unit covers performing measurement skills requiring straightforward use of mechanical measuring devices and associated calculations.	0
MEM12024A	Perform computations This unit covers estimating approximate answers to arithmetical problems, carrying out basic calculations involving percentages and proportions, and determining simple ratios and averages. The unit includes producing and interpreting simple charts and graphs.	0
MEM13014A	Apply principles of occupational health and safety in the work environment This unit covers following occupational health and safety procedures in an engineering or similar work environment.	0
MEM14004A	Plan to undertake a routine task This unit covers a person planning their own work where tasks involve one or more steps or functions and are carried out routinely on a regular basis. It includes the concepts of following routine instructions, specifications and requirements.	0
MEM14005A	Plan a complete activity This unit covers planning activities which, whilst following established procedures, may require a response and modification of procedures or choice of different procedures to deal with unforeseen developments.	0
MEM15002A	Apply quality systems This unit covers working within a quality improvement system, either individually or in a team situation.	0
MEM15024A	Apply quality procedures This unit covers applying established quality procedures to an employee's own work within a manufacturing, engineering or related environment.	0
MEM16006A	Organise and communicate information This unit covers accessing, organising and communicating information related to processes or tasks.	0
MEM16007A	Work with other in a manufacturing, engineering or related environment This unit covers operating in an interactive work environment and contributing to a group effort in order to plan and carry out work. This includes identification of work roles, communication and cooperation with others.	0
MEM16008A	Interact with computing technology This unit covers accessing, inputting and storing information used in manufacturing, engineering or related environments, using computing technology.	0
MEM17003A	Assist in the provision of on the job training This unit covers assisting in the provision of on the job training to others while undertaking normal duties.	0

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Code	Production Stream Units (value of 40 points minimum)	Points
MEM03001B	Perform manual production assembly	4
MEM03003B	Perform sheet and plate assembly	4
MEM08001B	Perform wire, jig and barrel load/unload work This unit covers loading barrels for mass finishing processes, undertaking jig work for non-electrolytic processes, undertaking wire jig and rack work for non-electrolytic processes, and unloading and removing jigs after finishing.	4
MEM09002B	Interpret technical drawing This unit covers interpreting technical drawing applying to any of the full range of engineering disciplines.	4
MEM11005B	Pick and process order This unit covers receiving an order, picking an order, checking against documentation, placing in the correct area and completing enterprise documentation.	4
MEM11006B	Perform production packaging This unit covers packaging and labelling of finished goods for storage or transport.	2
MEM11009B	Handle/move bulk fluids/gases This unit covers determining appropriate handling methods and storing bulk fluids and gases.	4
MEM11010B	Operate mobile load shifting equipment This unit covers operating mobile load shifting equipment, including moving and placing loads.	4
MEM11011B	Undertake manual handling This unit applies to lifting and moving materials manually and/or using basic manual handling equipment in a wide range of environments.	2
MEM11016B	Order Materials	2
MEM11019B	Undertake tool store procedures	4
MEM13003B	Work safely with industrial chemicals and materials This unit covers using personal protective equipment (PPEs), identifying the particular hazards and emergency procedures, and observing safe working practices in that environment.	2
MEM13004B	Work safely with molten metals/glass This unit covers working safely with molten metals or glass including the appropriate using personal protective equipment (PPE), identifying and responding to emergency procedures, observing safe work practices, and identifying the hazardous conditions in a heavy engineering environment.	2
MEM18001C	Use hand tools This unit covers using a range of hand tools for a variety of general engineering applications.	2
MEM18002B	Use power tools/hand held operations This unit covers using a range of hand held power tools and fixed power tools for hand held operations for a variety of general engineering applications.	2

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Code	Specialisation Units	Points
MEM05005B	Carry out mechanical cutting	2
MEM05007C	Perform manual heating and thermal cutting	2
MEM05012C	Perform routine manual metal arc welding This unit covers preparing the materials and carrying out routine manual metal arc welding (MMAW).	2
MEM05013C	Perform manual production welding	2
MEM05017C	Weld using gas metal arc welding process	4
MEM07032B	Use workshop machines for basic operations	2
MEM05049B	Perform routine gas tungsten arc welding This unit covers preparing the materials and carrying out routine gas tungsten arc welding (GTAW).	2
MEM05050B	Perform routine gas metal arc welding	2
MEM05051A	Select welding processes This unit covers identifying material properties and selecting appropriate welding processes to achieve safe and effective welding outcomes.	2
MEM05052A	Apply safe welding processes This unit covers identifying risks associated with welding operations and implementing hazard reduction practices.	4
MEM08010B	Manually finish/polish materials <i>**Prerequisite MEM18001C</i> This unit covers finishing and polishing materials using a range of media and equipment.	6
MEM13002B	Undertake occupational health and safety activities in the workplace This unit covers applying principles of Occupational Health and Safety (OHS) in the workplace and undertaking a safety risk assessment for the employee's area of responsibility.	3
MEM15003B	Use improvement processes in team activities <i>**Prerequisite MEM16007A</i> This unit covers identifying improvements and/or solving problems, implementing/monitoring the implementation of an improvement strategy, and evaluating the improvement.	4
MEM15004B	Perform inspection This unit covers inspecting products, keeping records and providing feedback on the conformance of product to specifications.	2
MEM16004B	Perform internal/external customer service This unit covers providing assistance to internal/external customers across a range of products and services.	2