



Australian Government

Department of Education, Employment and Workplace Relations

MEM30605 Certificate III in Jewellery Manufacture

Release: 2

MEM30605 Certificate III in Jewellery Manufacture

Modification History

Updated one unit of competency - MEM05006B to MEM05006C

Description

Not Applicable

Pathways Information

Not Applicable

Licensing/Regulatory Information

Not Applicable

Entry Requirements

Not Applicable

Employability Skills Summary

EMPLOYABILITY SKILLS QUALIFICATION SUMMARY

Employability Skill	Industry/enterprise requirements for this qualification include:
Communication	<ul style="list-style-type: none"> • Read, interpret, follow and communicate information on written job packets, specifications, standard operating procedures, charts, lists, drawings and other applicable reference documents • Produce sketches, illustrations and renderings • Check and clarify task-related information • Recognise and use common jewellery and horological terminology
Teamwork	<ul style="list-style-type: none"> • Work alone or as part of a team • Contribute to a group effort in order to plan and carry out work • Identify work roles, communicate and cooperate with others
Problem-solving	<ul style="list-style-type: none"> • Undertake numerical operations, geometry and calculations/ formulae (including addition, subtraction, multiplication, division, fractions and decimals, percentages and proportions, simple ratios and averages) • Use appropriate measuring techniques • Inspect quality of own or other employee's work • Interpret design and fabrication requirements and translate into practical outcomes • Use diagnostic skills to identify and determine causes of problems • Diagnose precision micro-mechanisms
Initiative and enterprise	<ul style="list-style-type: none"> • Be capable of applying the competency in new and different situations and contexts • Identify actual and foreseeable workplace hazards during course of work • Modify work plan to overcome unforeseen difficulties or developments that occur as work progresses • Economise material use and minimise waste • Participate in improvement procedures including process, quality and internal/external customer/supplier relationships
Planning and organising	<ul style="list-style-type: none"> • Plan, prioritise and sequence work operations • Select and use planning techniques and tools • Organise and analyse information relevant to work • Set up jobs prior to commencement of work including selection of appropriate tools, equipment and materials and adjustment of equipment

EMPLOYABILITY SKILLS QUALIFICATION SUMMARY

Self-management	<ul style="list-style-type: none"> • Carry out work safely and in accordance with company policy and procedures, manufacturer's recommendations, environmental guidelines and legislative requirements • Monitor performance of operation or quality of product or service to ensure customer satisfaction • Take responsibility for own work outcomes • Apply techniques, procedures, tools and equipment for compliance with site or manufacturers' specifications.
Learning	<ul style="list-style-type: none"> • Check and clarify task related information with appropriate personnel or technical adviser • Identify customers' requirements with respect to the operation or quality of the product or service • Assess and modify own work practices • Use manuals, online help and other reference materials such as catalogues/lists as required • Maintain current knowledge of applicable standards, legislation, codes of practice and product/process developments • Assist with on the job training and assessment
Technology	<ul style="list-style-type: none"> • Select and use appropriate tools, equipment, materials and machines, including high tolerance/precision tools and equipment • Use high magnification optics • Use gem setting techniques, tools, processes and procedures • Select and use appropriate measuring/testing devices • Navigate technology to access /input /store/retrieve/save and produce information/data using appropriate software applications

Packaging Rules

The minimum requirements for achievement of the Certificate III in Jewellery Manufacture are:

- completion of all core units of competency listed below, and
- completion of Group A Jewellery Manufacture stream units from the list below to the value of at least 40 points, and
- completion of units from Group B Certificate III Trade specialisation units listed in Appendix I, Volume 1 of the Training Package, to bring the total value to at least 73 points

Points associated with prerequisites count towards the total (refer to units and prerequisites listing in Appendix 2, Volume 1).

Appropriate Group B elective units to the value of 16 points may be chosen from other endorsed Training Packages and accredited courses where those units are available for inclusion at Certificate III. Note that the elective units listed below include all of the units that are approved for selection from the MEM Training Package for use in this qualification. This meets the NQC requirement that one sixth of the total units must be able to be selected from other qualifications in the same Training Package.

Registered Training Organisations must seek a determination from Manufacturing Skills Australia in respect of the allocation of points values for units of competency drawn from other Training Packages or accredited courses.

Only select units that would be suitable for Jewellery Manufacture occupational outcomes

Additional qualification descriptors

There are no approved additional descriptors for this qualification.

Core Units

- select all of the units from this list

Unit code	Unit title
MEM12023A	Perform engineering measurements
MEM12024A	Perform computations
MEM13014A	Apply principles of occupational health and safety in the work environment
MEM14004A	Plan to undertake a routine task
MEM14005A	Plan a complete activity
MEM15002A	Apply quality systems
MEM15024A	Apply quality procedures
MEM16006A	Organise and communicate information
MEM16007A	Work with others in a manufacturing, engineering or related environment
MEM16008A	Interact with computing technology
MEM17003A	Assist in the provision of on the job training
MSAENV272B	Participate in environmentally sustainable work practices

Electives

Group A - Jewellery Manufacture stream units

- select units from this list to the value of at least 40 points

Unit code	Unit title	P
MEM03001B	Perform manual production assembly	4
MEM03002B	Perform precision assembly	4
MEM03006B	Set assembly stations	2
MEM05006C	Perform brazing and/or silver soldering	2
MEM06007B	Perform basic incidental heat/quenching, tempering and annealing	2
MEM07001B	Perform operational maintenance of machines/equipment	2
MEM07005C	Perform general machining	8
MEM07024B	Operate and monitor machine/process	4
MEM07032B	Use workshop machines for basic operations	2
MEM07040A	Set multistage integrated processes	6
MEM08001B	Perform wire, jig and barrel load/unload work	4
MEM08002C	Pre-treat work for subsequent surface coating	4
MEM08003C	Perform electroplating operations	6
MEM08010B	Manually finish/polish materials	6
MEM08011B	Prepare surfaces using solvents and/or mechanical means	2
MEM09002B	Interpret technical drawing	4

Unit code	Unit title	P
MEM13002B	Undertake occupational health and safety activities in the workplace	3
MEM13003B	Work safely with industrial chemicals and materials	2
MEM13004B	Work safely with molten metals/glass	2
MEM15004B	Perform inspection	2
MEM18001C	Use hand tools	2
MEM18002B	Use power tools/hand held operations	2
MEM18003C	Use tools for precision work	4
MEM19001B	Perform jewellery metal casting	6
MEM19002B	Prepare jewellery illustrations	4
MEM19003B	Handle gem materials	2
MEM19004B	Handle and examine gemstone materials	6
MEM19005B	Produce three-dimensional precision items	8
MEM19006B	Replace watch batteries	1
MEM19007B	Perform gemstone setting	6
MEM19008B	Prepare jewellery designs	6
MEM19009B	Perform investment procedures for lost wax casting process	1
MEM19010B	Produce rubber moulds for lost wax casting process	2
MEM19011B	Perform wax injection of moulds for lost wax casting process	2
MEM19012B	Produce jewellery wax model	4

Unit code	Unit title	P
MEM19013B	Produce jewellery metal masters	4
MEM19014B	Perform hand engraving	4
MEM19015B	Perform jewellery enamelling	4
MEM19016B	Construct jewellery components	4
MEM19017B	Fabricate jewellery items	6
MEM19018B	Repair jewellery items	6
MEM19020B	Fault-find and maintain micro-mechanisms	4
MEM19021B	Diagnose and service micro-mechanisms	6
MEM19022B	Perform precision micro-mechanism diagnosis and servicing	6

Group B -Trade Specialisation units

Select units from Certificate III Trade Specialisation units listed in Appendix 1, Volume 1 of MEM05 to bring the total value of units to at least 73 points, including any prerequisites.