



Australian Government

Department of Education, Employment and Workplace Relations

MEM19031A Produce renderings and technical drawings for jewellery and object design construction

Release: 1

MEM19031A Produce renderings and technical drawings for jewellery and object design construction

Modification History

Not applicable.

Unit Descriptor

This unit of competency covers the skills and knowledge required by a designer to produce renderings and technical drawings to enable construction of their design.

Application of the Unit

This unit applies to designers who must produce renderings and technical drawings of their design to facilitate construction by themselves or others. The unit presumes that the design is finalised. The drawings and renderings would typically be used by the designer to develop production concepts, for marketing, or to record details necessary for construction by self or others.

Where the production of jewellery illustrations is required for practical application or trade work, such as manufacturing, modifying or repairing jewellery items, see MEM19002B Prepare jewellery illustrations.

Band A

Unit Weight 2

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Not applicable.

Employability Skills Information

This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Not applicable.

Elements and Performance Criteria

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| 1 | Identify drawing requirements | 1.1 | Identify and implement occupational health and safety (OHS) and environmental requirements for carrying out the work and for |
| | | 1.2 | Analyse jewellery or object design to determine types of drawings and specifications required |
| | | 1.3 | Identify and collect required data |
| | | 1.4 | Select appropriate media and equipment |
| 2 | Produce drawing or render | 2.1 | Adhere to OHS requirements for carrying out the work |
| | | 2.2 | Plan the stages, materials, tools and equipment for drawing or rendering |
| | | 2.3 | Produce drawing or render in a manner that maximises jewellery or object design features while conveying technical details necessary for |
| | | 2.4 | Apply drawing protocols as required to specify construction details and dimensions |
| | | 2.5 | Check and confirm illustration and accompanying documentation is consistent with design |
| 3 | Finalise drawing for presentation | 3.1 | Select drawing presentation and production technique to enhance jewellery or object design features and to appeal to the intended |
| | | 3.2 | Use/store/file/copy/issue working and reference drawings/illustrations in accordance with standard operating procedures |
| | | 3.3 | Prepare supporting information to accompany drawing, as required |

Required Skills and Knowledge

Required knowledge includes:

- common documentation, storage and retrieval
- isometric and orthographic drawing perspectives
- drawing equipment and applications, storage and maintenance
- drawing methods, protocols and symbols used in technical drawings for jewellery manufacture
- rendering applications and techniques and tools for the creation of illustration effects
- jewellery and object design features and decorative finishes
- properties of jewellery metals used in practical manufacturing applications
- options available for drawing presentation

Required skills include:

- identifying and collecting data necessary to produce the illustration
- selecting equipment appropriate to the illustrating method and requirements
- using colour, contour, shadow/highlight techniques for emphasis to display jewellery design concept
- interpreting and clarifying illustration requirements
- drawing and rendering
- modifying drawings
- using workplace technology, including calculators, measuring and recording devices, and computing equipment

Evidence Guide

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| <p>Overview of assessment</p> | <p>A person who demonstrates competency in this unit must be able to apply a range of drawing techniques to demonstrate features of jewellery or object construction and prepare drawing for presentation according to the audience needs.</p> |
| <p>Critical aspects for assessment and evidence required to demonstrate competency in this unit</p> | <p>Assessors must be satisfied that the candidate can competently and consistently:</p> <ul style="list-style-type: none"> • use drawings to demonstrate the technical and visual features of jewellery or object design which will enable construction according to design requirements • prepare and present drawings to appeal to the specific needs of the intended audience. |
| <p>Context of and specific resources for assessment</p> | <ul style="list-style-type: none"> • Assessment may occur on the job or in an appropriately simulated environment. Access is required to real or appropriately simulated situations, including work areas, materials and equipment, and to information on workplace practices and OHS practices. • Where applicable, reasonable adjustment must be made to work environments and training situations to accommodate ethnicity, age, gender, demographics and disability. • Access must be provided to appropriate learning and/or assessment support when required. Where applicable, physical resources should include equipment modified for people with disabilities. |
| <p>Method of assessment</p> | <ul style="list-style-type: none"> • Assessment must satisfy the endorsed Assessment Guidelines of the MEM05 Metal and Engineering Training Package. • Assessment methods must confirm consistency and accuracy of performance (over time and in a range of workplace relevant contexts) together with application of underpinning knowledge. • Assessment methods must be by direct observation of tasks and include questioning on underpinning knowledge to ensure its correct interpretation and application. • Assessment may be applied under project-related conditions (real or simulated) and require evidence of process. • Assessment must confirm a reasonable inference that competency is able not only to be satisfied under the particular circumstance, but is able to be transferred |

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| | <p>to other circumstances.</p> <ul style="list-style-type: none">• Assessment may be in conjunction with assessment of other units of competency where required. |
| Guidance information for assessment | Assessment processes and techniques must be culturally appropriate and appropriate to the language and literacy capacity of the candidate and the work being performed. |

Range Statement

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| Design features | Design features may include: <ul style="list-style-type: none">• materials• dimensions• colour• texture• scale |
| Appropriate equipment | Appropriate equipment may include: <ul style="list-style-type: none">• compass• set square• ruler• range of graphite/colour pencils• cartridge paper• pencils• ink (brush, pen and wash)• charcoal (natural and compressed)• conte• crayons• gouache• coloured pencils• felt tip markers• paper (a range of weights, textures and colours)• collage• paints |
| Accompanying documentation | Accompanying documentation may include: <ul style="list-style-type: none">• specific design information• recommendations |
| Enterprise procedures | Enterprise procedures may include: <ul style="list-style-type: none">• the use of equipment• instructions, including job sheets, plans, drawings and designs• reporting and communication• client specifications• operational procedures |
| Drawing presentation and production techniques | Drawing presentation and production techniques may include: <ul style="list-style-type: none">• type and grade of paper• printing• electronic and digital format |

Unit Sector(s)

Jewellery and horological

Custom Content Section

Not applicable.