



Australian Government

Assessment Requirements for MEM19012 Produce jewellery wax model

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to MEM19012B Produce jewellery wax model

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, job sheets or work instructions and select appropriate method for construction of wax model for the supplied specifications
- selecting wax to suit construction method and required finish and roughing out and sculpting shapes with minimal wastage, effort and time
- fusing joints to achieve optimum strength and quality
- conducting required measurements
- applying texture finishing and inspecting and modifying product to achieve compliance with specifications.

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)
- factors affecting construction of wax model, including type of wax, hand tools, method of construction, final finish and weight of finished product
- variations in end product and the relationship with wax type
- techniques in controlling melting wax and knowledge of effects of toxic fumes
- tools for preparing and producing wax for specific wax types and constructions
- importance of minimising material wastage and time taken during roughing and finishing and methods to be used to produce the required outcome to specifications with minimise waste
- key features and datum points for model
- purpose and requirements for selected surface finish
- evaluation of product by weight formulation
- effects of casting shrinkage and finishing processes.

Assessment Conditions

- Assessors must:
 - have vocational competency in producing jewellery wax model 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.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b7050d37-5fd0-4740-8f7d-3b7a49c10bb2>