



Australian Government

Assessment Requirements for MEM19049

Develop and apply heraldic designs for hand engraving

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to MEM19049A Develop and apply heraldic designs for hand engraving.

Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy the requirements of the elements and performance criteria and include:

- following work instructions, standard operating procedures (SOPs) and safe work practices
- determining customer requirements including those related to repair or restoration
- identifying the engraving sequence and using computer-based tools
- drawing decorative borders and other design work to required dimensions using datum lines or points representing fine line detail and shading
- applying block and script lettering and carving techniques to achieve patterns in relief or intaglio
- laying out and transferring heraldic designs onto metal surfaces on at least two occasions
- selecting and using applicable tools and engraving with appropriate spacing for decorative design work
- completing and presenting design and layout work that is clean, accurate and meets with client approval and commercial standards on at least two occasions
- machining, sharpening and maintaining tools in accordance with SOPs.

Note: Where a volume and/or frequency is not specified, demonstration must be provided at least once.

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)
- types of heraldic designs
- historic and cultural sources of heraldic designs
- design research techniques
- elements and principles of design as applied to applications of hand-engraved designs to a range of metal surfaces
- types, characteristics and responses of metals for engraving purposes
- engraving terminology
- methods used to determine customer requirements
- computer-based engraving aids

- sources of task-related information
- securing methods and limitations
- different gravers, scorpers and other tools, their maintenance and applications
- techniques for producing and maintaining cutting edges
- equipment used for maintaining gravers and tool maintenance
- required industry standards
- hand engraving techniques
- environmental considerations when engraving.
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Assessment Conditions

- Assessors must:
 - have vocational competency in developing and applying heraldic designs for hand engraving 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.
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Links

Companion Volume implementation guides are found in VETNet -

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