



Australian Government

MEM19010 Produce rubber moulds for lost wax casting process

Release: 1

MEM19010 Produce rubber moulds for lost wax casting process

Modification History

Release 1. Supersedes and is equivalent to MEM19010B Produce rubber moulds for lost wax casting process

Application

This unit of competency defines the skills and knowledge required to prepare flexible moulds for the purpose of replicating an original model.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Band: A

Unit Weight: 2

Pre-requisite Unit

MEM13015 Work safely and effectively in manufacturing and engineering

MEM16006 Organise and communicate information

Competency Field

Jewellery and horological

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

- | | |
|-------------------------------------|---|
| 1 Determine job requirements | 1.1 Follow standard operating procedures (SOPs) |
| | 1.2 Comply with work health and safety (WHS) requirements at all times |
| | 1.3 Use appropriate personal protective equipment (PPE) in accordance with SOPs |
| | 1.4 Identify job requirements from specifications, job sheets or work instructions |

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

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|---|--------------------------------------|-----|--|
| 2 | Prepare and pack mould frame | 2.1 | Select mould frame and rubber for style of master and job requirements |
| | | 2.2 | Prepare rubber and pack mould frame |
| 3 | Cure rubber and release mould | 3.1 | Select appropriate curing system |
| | | 3.2 | Cure, cool and remove assembled mould |
| | | 3.3 | Select tools and procedures for the release of the master pattern |
| | | 3.4 | Release master pattern |

Foundation Skills

This section describes those required skills (reading, writing, oral communication and numeracy) that are essential to workplace performance in this unit of competency.

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

This field allows for different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included.

Mould frame includes one (1) or more of the following:

- solid systems
- component systems

Rubber includes one (1) or more of the following:

- silicon
- natural rubber

Curing system includes one (1) or more of the following:

- vulcaniser
- room temperature vulcaniser (RTV)

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following:

- standard heat and pressure combinations

Tools include one (1) or more of the following:

- scalpel
- vice

Unit Mapping Information

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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>