



Australian Government

Assessment Requirements for MSMPMC329 Prepare moulds and dies

Release: 1

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Modification History

Release 1. New unit. Supersedes and is equivalent to PMC553020 Prepare moulds and dies

Performance Evidence

There must be evidence the candidate has completed the tasks outlined in the elements and performance criteria of this unit, and:

- constructed the following moulding items to specification on at least 1 occasion:
 - working mould
 - die
 - frame or case
- monitored the following key variables to ensure product integrity and conformance to specification:
 - shape
 - dimensions
 - shrinkage
 - type of material for product
 - integrity and conformance to specification of the moulding item
- recognised possible causes of the following routine problems:
 - incorrect materials
 - variations in materials
 - equipment malfunction
 - procedure errors
 - incorrect specifications.
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Knowledge Evidence

There must be evidence the candidate has knowledge of:

- types of moulds, dies, frames, cases and their functions
- materials properties and impact on design and construction of moulds, dies, frames and cases, including:
 - additives
 - release agents
 - epoxy resins
 - concrete
 - clay

- plaster
- ceramics
- quality requirements at each stage of production
- the potential effects of variations in raw materials and equipment operation or processes in relation to quality of moulding items and product
- routine problems, their probable causes and relevant corrective actions
- mould and die hazards and:
 - their possible causes
 - potential consequences
 - risk control procedures.
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Assessment Conditions

Skills must have been demonstrated in the workplace or in a simulated environment that reflects workplace conditions and contingencies. The following conditions must be met for this unit:

- use of suitable facilities, equipment and resources, including:
 - moulds, dies, frames or cases and materials
 - specifications, procedures and job sheets
- modelling of industry operating conditions, including:
 - routine and non-routine problems.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

Links

Companion Volume Implementation Guides are available at VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=d1287d36-dff4-4e9f-ad2c-9d6270054027>