



Australian Government

Assessment Requirements for MSMPMC328 Prepare for and apply shotcrete for installation

Release: 1

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Modification History

Release 1. New unit. Supersedes and is equivalent to PMC552094 Prepare for and apply shotcrete for installation

Performance Evidence

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

- mixed and applied shotcrete to at least 1 surface, including:
 - monitoring the following key variables to achieve required specifications:
 - uniformity and thickness of course
 - consistency of mix
 - correct compaction
 - conforming to required curves and angles
 - adhesion to surface
 - tying to structure
 - keying to existing refractory
 - cutting requirements
 - support requirements
 - recognising possible causes of the following routine problems:
 - raw material variations
 - equipment faults and abnormalities
 - procedure errors.
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Knowledge Evidence

There must be evidence the candidate has knowledge of:

- types, uses and characteristics of:
 - shotcreting materials and finishes
 - background surfaces
 - temporary support and formwork
- types, uses and operation of tools and equipment used in the process
- reasons for, and timing of, dedicated curing and heat-up programs and the consequences of the installed concrete if the program is not correctly followed
- reasons for and methods of:
 - background surface preparation

- protecting work during installation
- removing damaged refractory
- keying and bonding new to existing refractories
- obtaining seals between new and existing refractory
- providing test panels
- curing shotcrete
- cutting
- mixing and applying shotcreting materials
- avoiding lamination of applied shotcreting materials
- protecting applied shotcreting material during application and curing
- finishing the surface of the shotcrete
- safeguards to take during reinstatement
- routine problems, their probable causes and relevant corrective actions
- shotcreting 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:
 - shotcreting equipment
 - shotcrete 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>