



Australian Government

MSFFL3056 Polish concrete floors

Release: 1

MSFFL3056 Polish concrete floors

Modification History

Release 1. Supersedes and is equivalent to MSFFL3047 Polish concrete floors using planetary machines

Application

This unit describes the skills and knowledge required to select, prepare and use floor surfacing machines and their attachments for wet or dry polishing of concrete floors. It applies to concrete cleaning and polishing operations in commercial and residential environments.

This unit applies to flooring technicians working in accordance with pre-determined work orders.

Licensing, legislative or certification requirements may apply to this unit and relevant state/territory and local government agencies should be consulted to determine any necessary certification or licensing for undertaking flooring work. Industry standards and codes of practice within Australia must also be applied. Access to construction sites requires certification of general induction training specified by the National Code of Practice for Induction for Construction Work (ASCC 2007).

Pre-requisite Unit

Competency Field

Unit Sector

Flooring technology

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Select concrete polishing equipment	1.1 Read work documentation and identify polishing requirements and processes 1.2 Select planetary concrete grinding and/or polishing equipment and attachments consistent with the needs of the job 1.3 Check equipment for serviceability and safety, correct any faults, or process for repair in accordance with workplace procedures 1.4 Plan starting point and sequence of work to ensure efficiency and

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	quality of work
2. Clean and prepare subfloor	2.1 Identify and follow work health and safety, legislative and organisational requirements 2.2 Remove fittings, fixtures, loose debris, dirt and other items from the subfloor using suitable methods and products 2.3 Inspect subfloor and determine the need for removal of existing adhesive, paint or other contaminants 2.4 Safely measure and mix cleaning chemicals in required ratios in accordance with product recommendations 2.5 Select planetary polishing machine, appropriate machine rotation speed, direction and diamond tools for removal of contaminants 2.6 Follow machine operating procedures to remove contaminants in accordance with client specifications
3. Polish the floor	3.1 Follow machine operating procedures using techniques to establish a passing pattern and polish the main area to meet job specifications 3.2 Overlap outer zones and stagger passes to achieve desired finish 3.3 Monitor machine operation constantly to ensure motor/s are running within manufacturer's safe operational limits and no electrical faults are evident 3.4 Polish perimeter of the designated area using edge and corner polishing equipment and appropriate attachments 3.5 Identify excessive wear of polishing tools and exchanges or take required remedial action during the polishing process 3.6 Buff surface with correct and effective use of buffing pads 3.7 Clean floor area, inspect against quality requirements and rectify deficiencies
4. Clean up work area and tools	4.1 Check tools and equipment, and clean and store in accordance with workplace procedures 4.2 Clean work area and dispose of rubbish of safely 4.3 Accurately complete required workplace documentation

Foundation Skills

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

Unit Mapping Information

Supersedes and is equivalent to MSFFL3047 Polish concrete floors using planetary machines

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0601ab95-583a-4e93-b2d4-cfb27b03ed73>

Assessment Requirements for MSFFL3056 Polish concrete floors

Modification History

Release 1. Supersedes and is equivalent to MSFFL3047 Polish concrete floors using planetary machines

Performance Evidence

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

- polished 2 concrete subfloors in complete rooms
- used all of the following concrete polishing equipment:
 - single headed
 - double headed
 - planetary action
 - hand grinding and edging machines.
 -

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- mathematical procedures for estimation and measurement, including calculation of area and use of ratios
- concrete polishing:
 - Australian Standards requirements
 - workplace safety system, including personal protective equipment
 - work flow
 - environmental protection and sustainability requirements
 - floor preparation and cleaning methods
 - fittings and fixture that need to be removed prior to polishing
 - types, characteristics, safe use, and limitations of concrete polishing equipment, including:
 - single headed, double headed and planetary action grinders and/or polishers
 - dust and/or vacuum systems
 - diamond abrasives, including half set, full set, different tool bond types
 - factors that affect the diamond wear
 - maintenance requirements for planetary machines
 - types, characteristics, uses and limitations of hand grinding and edging tools
 - techniques for polishing concrete, the types of problems that may occur and how to avoid and respond
 - quality indicators for finished concrete floors

- procedures and protocols for the recording, reporting and maintenance of workplace records and information.
-

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:
 - concrete floors for polishing
 - equipment, tools and materials to perform tasks in the Performance Evidence
 - work orders
 - workplace procedures.

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

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0601ab95-583a-4e93-b2d4-cfb27b03ed73>