



**Australian Government**

# **MSFFL3057 Select and fit diamond tools for concrete surface preparation and polishing**

**Release: 1**

# MSFFL3057 Select and fit diamond tools for concrete surface preparation and polishing

## Modification History

Release 1. Supersedes and is equivalent to MSFFL3048 Select and fit diamond tools for concrete surface preparation and polishing.

## Application

This unit describes the skills and knowledge required to select and fit appropriate diamond grinding and polishing tools for use in concrete floor preparation and finishing machines. It applies to concrete cleaning and polishing operations in commercial and residential environments and involves application of skills and knowledge at a sub-trade worker level.

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. 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

Flooring technology

## 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. Identify the required concrete surface application | 1.1 Examine concrete surface to be prepared and polished to evaluate the level, any undulations and surface condition<br>1.2 Establish types of grinding and polishing techniques required based on floor inspection of the job<br>1.3 Determine the need for wet or dry application and any additional |

| Elements                                         | Performance Criteria                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Elements describe the essential outcomes.</i> | <i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>                                                                                                                                                                                                                                                                                                    |
|                                                  | abrasives required<br>1.4 Evaluate floor moisture test results and use results to determine the floor grinding and polishing steps for the job                                                                                                                                                                                                                                                            |
| 2. Select diamond grinding tools                 | 2.1 Identify required diamond tools and bond type for surface preparation<br>2.2 Determine grit size for grinding based on job requirements<br>2.3 Match segments of diamond tool and bond type to the job requirements and machine to be used for grinding<br>2.4 Fit diamond tools to the planetary machine for surface preparation operations ensuring tool rotation is correct for the machine set-up |
| 3. Select floor diamond polishing tools          | 3.1 Identify required diamond tools and bond type for surface polishing<br>3.2 Determine grit size for the polishing job<br>3.3 Match segments of diamond tool and bond type to the job requirements and machine to be used for polishing<br>3.4 Fit diamond tools to the planetary machine for surface polishing operations ensuring tool rotation is correct for the machine set up                     |
| 4. Clean up work area and tools                  | 4.1 Examine all diamond tools and identify those which are able to be re-used and which are to be discarded<br>4.2 Clean and store tools and equipment in accordance with workplace procedures<br>4.3 Record items to be discarded in workplace documentation and make disposal in accordance with manufacturer recommendations<br>4.4 Clear work area and safely remove waste                            |

## 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 MSFFL3048 Select and fit diamond tools for concrete surface preparation and polishing.

## Links

Companion Volume implementation guides are found in VETNet -

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