

Title	Perform concrete polishing on flooring surfaces		
Level	4	Credits	50

Purpose	<p>This unit standard is intended for those working in the flooring surface preparation industry.</p> <p>People credited with this standard are able to perform concrete polishing on flooring surfaces to the level of performance required of a commercially competent tradesperson.</p>
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Classification	Construction Trades > Flooring
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Available grade	Achieved
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Guidance Information

1 Assessment

This unit standard is intended to align with the *New Zealand Certificate in Flooring Surface Preparation – Specifications* and the *New Zealand Certificate in Flooring Surface Preparation (Level 4)* [Ref: 4299].

Evidence for this standard must reflect commercial competence.

Commercial competence refers to the ability to demonstrate knowledge and skills in the context of the currently accepted requirements of a business operating in a commercial environment.

Commercial competence must be confirmed by a person with current expertise in the flooring surface preparation trade.

2 Definitions

Manufacturer's installation guidelines include all the relevant producer information for a specific timber floor installation.

Substrate is the base material of the floor.

Work schedule refers to the specific job details to be performed when mechanically polishing the concrete flooring surface.

Workplace procedures refers to the documented procedures specific to a workplace which sets out the standard and the required practices of that workplace.

3 Legislation, standards and guidance information relevant to this standard includes the following, and any subsequent amendments and replacements:

New Zealand Certificate in Flooring Surface Preparation – Specifications, BCITO, September 2020, available from www.waihanganz.govt.nz.

Legislation accessed at www.legislation.govt.nz

- Building Act 2004
- Hazardous Substances and New Organisms Act 1996
- Health and Safety at Work Act 2015
- The New Zealand Building Code.

Standards accessed at www.standards.govt.nz

- NZS 3604:2011 *Timber Framed Buildings*
- AS/NZS 1080.1:2012 *Timber - Methods of test – Method 1: Moisture content*.

Best practice and good practice guidelines

- International Concrete Repair Institute (ICRI). *10 Concrete Surface Profiles*, available from www.icri.org
- *The Absolutely Essential Health and Safety Toolkit for Small Construction Sites*, and other Worksafe NZ publications available from www.worksafe.govt.nz.

Skill specification and performance level guidance

Skill specification

Perform concrete polishing on flooring surfaces.

Knowledge

The types and purpose of information to be communicated with the concrete placer to achieve the client's finishing requirements.

The properties of different concrete, and how they impact the polishing process, and finishing.

Range level, fall, thickness, structural support, moisture content, surface finish, integrity, stability, cleanliness.

The common issues associated with concrete, and methods to remedy them before, and during the concrete floor polishing process.

The methods for achieving the desired polishing finish on concrete floor surfaces to meet the required ICRI Concrete Surface Profile.

The methods to achieve different sheen and exposure levels of finished polished concrete floors.

Range ICRI Concrete Surface Profiles.

The requirements for leaving the site clear of generated waste, and protecting the finished polished concrete floor from damage from other subcontractors on site.

The purpose of, and requirements to protect other surfaces adjacent to the polished concrete.

The purpose of communicating information to clients at the completion of concrete polishing work.

Skills

Confirm concrete and concrete finish requirements with the concrete placer to meet client requirements.

Confirm work schedule and area of work are accurate as per job requirements.

Evaluate properties of the concrete floor surface to plan polishing processes.

Range level, fall, thickness, structural support, moisture content, surface finish, integrity, stability, cleanliness.

Select and inspect appropriate tools and equipment in readiness for the concrete polishing tasks.

Undertake preparation work as required in readiness for concrete floor polishing.

Range mechanically keying surface, cutting and forming in-floor requirements, reinforcing required area, fitting accessories, sealing, priming, crack repair application.

Polish the concrete floor to achieve the level of finish to meet the job requirements.

Range ICRI Concrete Surface Profile, use of chemical densifier and sealer.

Complete workplace procedures for site pack-up and waste removal.

Provide care and maintenance guidelines to clients at the completion of concrete polishing work.

Performance level guidance

Performance must reflect workplace procedures, work schedules, manufacturer's installation guidelines, AS/NZS 1080, and ICRI Concrete Surface Profiles.

Performance must reflect health and safety dust control, and dust removal practices when concrete polishing floor surfaces.

This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	29 November 2021	31 December 2027
Review	2	28 November 2024	31 December 2027

Consent and Moderation Requirements (CMR) reference	0048
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

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