

Domain

CONCRETE WORK

Title:

Apply specialised finishes to concrete surfaces

Level: 4

Credits: 6

Purpose

This unit standard specifies the competencies required to apply specialised finishes to concrete surfaces in a concrete work operation. It includes explaining different struck finishing methods for concrete, preparing shutters for struck finishes, applying texturing finish to fresh struck concrete, applying texturing finish to harden struck concrete and curing and protecting concrete.

This unit standard is intended for those who work as concrete workers.

Special Notes

1. Entry information:

Prerequisite:

- 1157- *Demonstrate basic knowledge of workplace health and safety or demonstrated equivalent knowledge and skills.*

2. This unit standard is to be assessed in the context of concrete work operations and should be assessed in conjunction with other technical unit standards selected from this domain.

3. To demonstrate competence, at a minimum, evidence is required of apply specialised finishes to concrete surfaces.

4. Assessment evidence may be collected from a real workplace, or simulated real workplace in which concrete work operations are carried out.

5. All inspection, operation and maintenance procedures associated with the use of plant, tools and equipment shall comply with manufacturers' and company guidelines, instructions, and reasonable flat rate time.

6. Regulations and legislation relevant to this unit standard include the following:

- Labour Act No 11, 2007 as amended;
- Occupational Health and Safety Regulations No. 18, 1997 and all subsequent amendments.

Quality Assurance Requirements

This unit standard and others within this subfield may be awarded by institutions which meet the accreditation requirements set by the Namibia Qualifications Authority and the Namibia Training Authority and which comply with the national assessment and moderation requirements. Details of specific accreditation

requirements and the national assessment arrangements are available from the Namibia Qualifications Authority on www.namqa.org and the Namibia Training Authority on www.nta.com.na.

Elements and Performance Criteria

Element 1: Explain different struck finishing methods for concrete

Range

Struck finishing methods include but not limited to washing and brushing, tooled finish, and abrasive blasting.

Performance Criteria

- 1.1 Method selected for finishing concrete is explained.
- 1.2 Tools and equipment required are explained.
- 1.3 Concrete materials required are explained.

Element 2: Prepare shutters for struck finishes

Performance Criteria

- 2.1 Work activities are planned to make provision for other co-related activities to maintain productive work flow and ensure compliance with given drawings.
- 2.2 Work area is checked for hazards.
- 2.3 Tools, equipment and personnel protective equipment required for the task are identified and ensured to be functional and are ready for use at work area.
- 2.4 Struck finishing is determined in terms of concrete finish specifications.
- 2.5 Attaining a particular finish process is explained in terms of shutter requirements.
- 2.6 Shutters are prepared in order to give the required finish in accordance with concrete finish requirements.
- 2.7 Support personnel is utilised effectively, in line with their expertise.

Element 3: Apply texturing finish to fresh struck concrete

Range

Apply texturing finish to fresh struck concrete includes but not limited to washing and brushing.

Performance Criteria

- 3.1 Work is carried out in accordance with work place safety requirements.
- 3.2 Tools and equipments are used in accordance with their designed purpose.
- 3.3 Personal protective equipment is used as required in accordance with the relevant safety legislation.
- 3.4 Finishing requirements is identified in accordance with work place requirements.
- 3.5 Concrete face is finished in accordance with workplace requirements and specified tolerances.
- 3.6 Consequences of good and poor workmanship are described in terms of the effect on production, cost, safety and quality of finish to product.
- 3.7 Consequences of removing too much concrete fines are explained in terms of quality of product and potential structural decay.

Element 4: Apply texturing finish to harden struck concrete

Range

Apply texturing finish to hardened concrete includes but not limited to the tooled finish and abrasive blasting.

Performance Criteria

- 4.1 Work is carried out in accordance with work place safety requirements.
- 4.2 Tools and equipment are used in accordance with their designed purpose.
- 4.3 Personal protective equipment is used as required in accordance with the relevant safety legislation.
- 4.4 Finishing requirements is identified in accordance with work place requirements.
- 4.5 Concrete face is finished in accordance with workplace requirements and specified tolerances.
- 4.6 Consequences of removing too much concrete fines are explained in terms of quality of product and potential structural decay.
- 4.7 Consequences of good and poor workmanship are described in terms of the effect on production, cost, safety and quality of finish to product.

Element 5: Cure and protect concrete

Performance Criteria

- 5.1 Curing method is selected.

5.2 Curing of finished concrete is carried out as per prescribed method

Registration Data

Subfield:	General Construction
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