

Domain

CONCRETE WORK

Title:

Carry out finishing to concrete surfaces

Level: 4

Credits: 5

Purpose

This unit standard specifies the competencies required to carry out finishing to concrete surfaces. It includes planning and preparing for work, identifying different finishing of surfaces, lay fresh concrete paving and repair granolithic floors.

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 carry out finishing 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: Plan and prepare for work

Range

Planning and preparation is to include but is not limited to worksite inspection, equipment defect identification, assessment of conditions and hazards and determination of work requirements

Performance Criteria

- 1.1 Work instructions, including plans, specifications, quality requirements and operational details are obtained, confirmed and applied.
- 1.2 Safety requirements are followed in accordance with safety plans and policies.
- 1.3 Sign and barricade requirements are identified and implemented.
- 1.4 Plant, tools and equipment selected to carry out tasks that are consistent with the requirements of the job, checked for serviceability and any faults are rectified or reported prior to commencement.
- 1.5 Material quantity requirements are calculated in accordance with plans and/or specifications.
- 1.6 Materials appropriate to the work application are identified, obtained, prepared, safely handled and located ready for use.
- 1.7 Environmental protection requirements for the project are identified and applied in line with environmental plans and regulatory obligations.

Element 2: Identify different finishing of surfaces

Range

Finishing of surfaces includes but not limited to sand and guano screed finishing of floors and steps.

Surface preparations includes but not limited to levelling, straitening and freeing of tools marks and foreign objects.

Methods of curing surface include applying water or curing membrane; and float finishes including steel and wood floats.

Performance Criteria

- 2.1 Different screeds mixed applications to floors and steps are explained.
- 2.2 Granolithic finishing of concrete steps explained and demonstrated.

2.3 Curing and protection of surfaces from damage are explained.

Element 3: Lay fresh concrete paving

Performance Criteria

- 3.1 Polyvinyl chloride sheeting is placed over cleared and compacted area.
- 3.2 Formwork is erected to receive the concrete.
- 3.3 Concrete is mixed and placed in the form to a specified level and fall.
- 3.4 V-shape joints and expansion joints are formed as indicated on drawings.

Element 4: Repair granolithic floors

Performance Criteria

- 4.1 Extent of damaged screed is determined.
- 4.2 Marked and loose granolithic concrete are removed.
- 4.3 Dirt and protrusions from the concrete surface are removed.
- 4.4 Cut area is ensured to be free from grease, oil, or material which caused or will cause damage to the floor screed.
- 4.5 Mixture of fine aggregates and cement are applied and float finished.
- 4.6 Inspection done to complete work.

Registration Data

Subfield:	General Construction
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