

Title	Produce concrete for concrete pipe manufacture		
Level	3	Credits	5

Purpose	People credited with this unit standard are able to: weigh and dispense concrete mix components for prescribed mixes; mix and discharge concrete; and complete work operations for concrete pipe manufacture.
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Classification	Concrete > Concrete Product Manufacture
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Available grade	Achieved
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Guidance Information

- 1 Definition
Workplace practice refers to the documented procedures specific to a workplace which set out the standard and required practices of that workplace.
- 2 Evidence for this unit standard must comply with industry practice. *Industry practice* refers to the ability to demonstrate knowledge and skills that reflect the productivity, uniformity, finish quality and material economies currently accepted within industry.
- 3 Legislation and publications relevant to this unit standard include:
Health and Safety in Employment Act 1992 and Health and Safety in Employment Regulations 1995;
NZS 3104:2003 *Specification for concrete production*; NZS 3111:1986 *Methods of test for water and aggregate for concrete*; and NZS 3121:1986 *Specification for water and aggregate for concrete*, available from Standards NZ (<http://www.standards.co.nz>).

Outcomes and performance criteria

Outcome 1

Weigh and dispense concrete mix components for prescribed mixes for concrete pipe manufacture.

Performance criteria

- 1.1 Concrete mix components are selected to achieve the prescribed mix design.

Range components – cement, sand, aggregate, admixtures, additives, water.

- 1.2 Concrete mix components are dispensed into weigh hoppers or gauge boxes and mixing bowl in accordance with workplace practice.

Outcome 2

Mix and discharge concrete for concrete pipe manufacture.

Performance criteria

- 2.1 Equipment is verified as complying with tolerances in accordance with workplace practice.
- 2.2 Concrete mixing equipment is cleaned and operated in accordance with workplace practice.
- 2.3 Mix is discharged in accordance with workplace practice.

Outcome 3

Complete work operations.

Performance criteria

- 3.1 All operations are safely completed, workplace and equipment are cleaned in accordance with workplace practice and environmental safety requirements, and routine maintenance is carried out in accordance with workplace practice.
- 3.2 All documentation is completed in accordance with workplace practice.

Replacement information	This unit standard replaced unit standard 12013.
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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	18 March 2011	31 December 2024
Review	2	24 November 2022	31 December 2024

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>.