

Title	Demonstrate knowledge of interpreting job documentation for plumbing, gasfitting, or drainlaying jobs		
Level	4	Credits	10

Purpose	<p>This unit standard is for people who work, or intend to work, in the plumbing, gasfitting, or drainlaying industries.</p> <p>People credited with this unit standard are able to:</p> <ul style="list-style-type: none"> – demonstrate knowledge of the significance and purpose of plan documents in the context of a plumbing, gasfitting, or drainlaying project; – interpret building plans and specifications in a plumbing, gasfitting, or drainlaying context; – interpret plans and drawings for plumbing, gasfitting, or drainlaying jobs; – use plans and job specifications to determine requirements for a plumbing, gasfitting, or drainlaying task; and – demonstrate knowledge of managing variations and amendments.
----------------	--

Classification	Plumbing, Gasfitting and Drainlaying > Core Plumbing, Gasfitting, and Drainlaying
-----------------------	---

Available grade	Achieved
------------------------	----------

Guidance Information

- 1 References
Building Act 2004;
Health and Safety at Work Act 2015;
and all subsequent amendments and replacements.
- 2 Drawings may be plans for gas, drains, or plumbing as relevant to the sector employed in. For example, a drawing may be for a site plan, floor plan, elevation, and roof plan. It is not expected that instruments will be used for drawing. Drawings are to suit the purpose of worksite communication.
- 3 Definitions
Job documentation – drawings and job specifications.
Job requirements – specific requirements of the job at hand not covered by job specifications.
Job specifications – instructions (oral, written, graphic) and may include any of the following: manufacturer instructions; design drawing detail specifications; specifications from a specialist source such as an architect, designer, engineer, or a

supervisor; and site or work specific requirements. Where job specifications are in conflict with applicable legislation, standards, and/or codes, such legislation, standards, and/or codes shall take precedence for the purpose of assessment.

Approving authority – includes but is not limited to territorial authorities, network utility operators, and building consent authorities.

Other services – any existing installed services such as water, gas, electricity, or telephone network cables.

- 4 All practical activities must be carried in a way that avoids harm to people and damage to property, environment, other services, materials, tools, and equipment.
- 5 Candidates must hold a current limited certificate or exemption under supervision as issued under the Plumbers, Gasfitters, and Drainlayers Act 2006.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of the significance and purpose of plan documents in the context of a plumbing, gasfitting, or drainlaying project.

Performance criteria

- 1.1 Describe the place of the plan as the consented document in terms of design of work to be undertaken.

Range may include but is not limited to – reference document for the consented work, key source of job specifications.
- 1.2 Describe the utility of the plan documents for deriving quantity schedules for materials, time, and equipment, estimated costs, and work planning.
- 1.3 Describe the types of plans that commonly make up a set of working drawings.

Range may include but is not limited to – elevations, plan views, sections, detail drawings, scale drawings, full size.

Outcome 2

Interpret building plans and specifications in a plumbing, gasfitting, or drainlaying context.

Performance criteria

- 2.1 Identify parts of drawings and specifications where plumbing, gasfitting, or drainlaying information can be obtained.

Range may include but is not limited to – elevations, plan views, sections, detail drawings, scale drawings, full size.
- 2.2 Determine dimensions and quantities of materials.

Outcome 3

Interpret plans and drawings for plumbing, gasfitting, or drainlaying jobs.

Performance criteria

- 3.1 Describe how to orient plans to match site location, position of supplied or existing services, and position of new work.
- 3.2 Interpret data scales and symbols for plans and drawings in terms of the equipment or materials and/or the system required for job specifications.
- 3.3 Interpret baseline and contour data points for plans and drawings to meet job requirements.
- 3.4 Interpret detailed dimensions, profiles, and related notes for plans and drawings to meet job requirements.

Outcome 4

Use plans and job specifications to determine requirements for a plumbing, gasfitting, or drainlaying task.

Performance criteria

- 4.1 Calculate needed material quantities.
 - 4.2 Estimate time to complete the job, including any allowance for the skill level of person or persons carrying out the job.
 - 4.3 Determine required equipment.
 - 4.4 Determine any considerations to be addressed relating to on-site health and safety.
 - 4.5 Determine job schedule.
- Range includes but is not limited to – delivery of materials and equipment, timetable of council inspections, interruptions to existing services.

Outcome 5

Demonstrate knowledge of managing variations and amendments.

Performance criteria

- 5.1 Compare documented job requirements to approved plans or site details to identify any variations that may be needed.
- 5.2 Record variations to job specifications in sufficient detail to enable the designer to amend relevant documentation and submit it to the approving authority for approval.

5.3 Describe appropriate processes for arranging a change if circumstances require amendments or variations to consented plans.

Range includes but is not limited to – recognition of any required consultation with others such as the owner/architect/certifier/other trades where appropriate.

Replacement information	This unit standard, unit standard 30527, unit standard 30528, and unit standard 30529 replaced unit standard 21879 and unit standard 21882.
--------------------------------	---

Planned review date	31 December 2022
----------------------------	------------------

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	28 September 2017	N/A

Consent and Moderation Requirements (CMR) reference	0003
--	------

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

Please contact The Skills Organisation reviewcomments@skills.org.nz if you wish to suggest changes to the content of this unit standard.