

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"> – describe the significance and purpose of job documentation 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 job; and – demonstrate knowledge of managing variations and amendments.
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Classification	Plumbing, Gasfitting and Drainlaying > Core Plumbing, Gasfitting, and Drainlaying
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Available grade	Achieved
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Guidance Information

- 1 Legislation, regulations and/or industry standards relevant to this unit standard include but are not limited to:
Building Act 2004;
Health and Safety at Work Act 2015.

Any new, amended or replacement referenced standards, codes of practice, guidelines, Building Code Acceptable Solutions and Verification Methods, or authority requirements affecting this unit standard will take precedence for assessment purposes, pending review of this unit standard.

- 2 Definitions
Approving authority refers to, but is not limited to regional councils, territorial authorities, unitary councils, network utility operators, and building consent authorities.
Job documentation refers to drawings and job specifications.
Job requirements refers to specific requirements of the job not covered by job specifications.

Job specifications refers to 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.

Services refers to any existing installed services such as water, gas, electricity, or telephone network cables.

- 3 Candidates must hold a current limited certificate trainee authorisation or exemption under supervision as issued under the Plumbers, Gasfitters, and Drainlayers Act 2006.
- 4 **Assessment Information**
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. Drawings are to suit the purpose of worksite communication.

Outcomes and performance criteria

Outcome 1

Describe the significance and purpose of job documentation in the context of a plumbing, gasfitting, or drainlaying project.

Performance criteria

- 1.1 Describe the purpose of consented job documentation for the work to be undertaken.

Range includes reference document for the consented work.
- 1.2 Describe the purpose of job documentation for work exempt from requiring building consent.

Range may include but is not limited to – supporting documentation, specifications and referenced standards, work exempt under Schedule 1 of the Building Act 2004.
- 1.3 Describe the benefit of the job documentation for deriving quantity schedules for materials, time, equipment, estimated costs, and work planning.
- 1.4 Describe the types of job documentation 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, schematics, building information modelling.
- 1.5 Describe the responsibility of designers to ensure that plans and specifications are sufficient to result in the building work complying with the building code.

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, schematics, scope of works, scope of contract, material, equipment and workmanship, testing, commissioning, maintenance and servicing.

2.2 Determine dimensions and quantities of materials required to complete the job.

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 datum 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 job.

Performance criteria

4.1 Calculate required 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 inspections, interruptions to existing services.

Outcome 5

Demonstrate knowledge of managing variations and amendments.

Performance criteria

5.1 Compare quoted or tendered job documentation to consented job documentation to identify any variations that may be needed.

5.2 Record variations to job documentation 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 approving authority, 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.
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Planned review date	31 December 2029
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	28 September 2017	31 December 2028
Review	2	30 May 2024	N/A

Consent and Moderation Requirements (CMR) reference	0003
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

Please contact Waihanga Ara Rau Construction and Infrastructure Workforce Development Council Qualifications@WaihangaAraRau.nz if you wish to suggest changes to the content of this unit standard.