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| Title | Maintain structural integrity and weather tightness of building penetrations | | |
| Level | 4 | Credits | 7 |

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| Purpose | <p>This unit standard is for people who work in the plumbing or gasfitting industries.</p> <p>People credited with this unit standard are able to:</p> <ul style="list-style-type: none"> – install flashings for pipework penetrations through exterior claddings; and – fire rate penetrations to main integrity of fire cell. |
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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 References

Building Act 2004;
Health and Safety at Work Act 2015;
Plumbers, Gasfitters, and Drainlayers Act 2006;
Plumbers, Gasfitters, and Drainlayers Regulations 2010;
The following standards, which are available at <http://www.standards.govt.nz>:
NZS 3604:2011, *Timber-framed buildings*;
NZS 4219:2009, *Seismic performance of engineering systems in buildings*;
The following clauses, current versions, and any related compliance documents, which are available at <https://www.building.govt.nz>:
New Zealand Building Code Clause B1 Structure,
New Zealand Building Code Clause C Protection from fire,
New Zealand Building Code Clause E2 External moisture,
New Zealand Building Code Clause E3 Internal moisture,
New Zealand Building Code Clause G11 Gas as an energy source;
and all subsequent amendments and replacements.
- 2 This unit standard requires the application of theory as included in the Plumbers, Gasfitters, and Drainlayers Regulations 2010.
- 3 Definition

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.

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

Outcomes and performance criteria

Outcome 1

Install flashings for pipework penetrations through exterior claddings.

Performance criteria

- 1.1 Select suitable materials with regard to the pipework and roofing/cladding material being penetrated.
- 1.2 Design flashings to meet the requirements of New Zealand Building Code Clause E2 AS1.
- 1.3 Form flashing to job specifications.
- 1.4 Install flashing to job specifications.

Outcome 2

Fire rate penetrations to main integrity of fire cell.

Range through fire rated plaster board, through concrete.

Performance criteria

- 2.1 Select suitable products with regard to the pipework and fire rated element being penetrated, in accordance with job specifications.

Range must include but is not limited to – collar, wrap.
- 2.2 Fire rate penetrations to job specifications.

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| Planned review date | 31 December 2022 |
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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 | N/A |

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