

Unit Standard 24169 <http://www.nzqa.govt.nz/nqfdocs/units/doc/24169.doc>

Title: **Demonstrate knowledge of the requirements for services and facilities in the Building Code**

Level **5** Credits **7**

Special notes

- 1 Compliance with the following legislation, regulations, and codes is required:
Building Act 2004
Electricity Act 1992
The Building Code
Building (Forms) Regulations 2004.

- 2 The scope of buildings assessed within this unit standard fall generally within the coverage of NZS 3604:1999 Timber Framed Buildings, NZS 4229:1999 Concrete masonry buildings not requiring specific engineering design, and NZS 3109:1997 Concrete construction, available from <http://www.standards.co.nz/default.htm>.

Please note other standards are referenced in the Building Code Handbook, available from <http://www.dbh.govt.nz/UserFiles/File/Publications/Building/Compliance-documents/handbook.pdf>.

- 3 Reference documents:
The Building Code Compliance Documents
<http://www.dbh.govt.nz/building-code-compliance-documents>;
Building Officials – Building Act 2004 overview
<http://www.dbh.govt.nz/bofficials-buiding-act-2004-overview>.

Element 1

Demonstrate knowledge of the objectives, functional requirements and performance standards of Clause G1 – personal hygiene in the Building Code.

Performance Criteria	Candidate	Assessor
1.1 The objectives of Clause G1 – personal hygiene are described in terms of the Building Code	Describe the objective relating to Clause G1 - personal hygiene in the New Zealand Building Code 1992	Description to include protecting people from illness and loss of amenity, ensure people with disabilities are able to carry out normal activities and processes
1.2 The functional requirements relating to Clause G1 – personal hygiene are described in terms of the Building Code	Describe the functional requirements relating to Clause G1 - personal hygiene in the New Zealand Building Code 1992	Description to include reference to provision to appropriate spaces and facilities for personal hygiene
1.3 The performance measures relating to Clause G1 – personal hygiene are described in accordance with the Building Code and applied to a given scenario Range sanitary fixtures, personal hygiene, access for people with disabilities.	Scenario 3 Identify appropriate spaces and facilities for personal hygiene	Specifically refer to accessibility and sufficient number of fixtures, and any 3 of the following: <ul style="list-style-type: none">• appropriate privacy measures• avoid contamination of food or by odour• cleanable• Disposal of wastes• Convenient location

Element 2

Demonstrate knowledge of the objectives, functional requirements and performance standards of Clause G2 – laundering in the Building Code.

Performance Criteria	Candidate	Assessor
2.1 The objectives of Clause G2 – laundering are described in terms of the Building Code.	Describe the objective and functional requirements relating to Clause G2 - laundering in the New Zealand Building Code 1992	Description to include reference to: <ul style="list-style-type: none">• The provision of adequate laundering facilities and the ability for people with disabilities to carry out normal activities within the building• The provision of appropriate facilities and adequate space for laundering functions within the building
2.2 The functional requirements relating to Clause G2 – laundering are described in terms of the Building Code		
2.3 The performance standards relating to Clause G2 – laundering are described in terms of the Building Code and applied to a given scenario	Scenario 3 Identify appropriate spaces and facilities for laundering	Description shall include reference to: <ul style="list-style-type: none">• Providing adequate amenities for laundering• Capacity for intended use• Appropriate location• Accessibility

Element 3		
Demonstrate knowledge of the objectives, functional requirements and performance standards of Clause G3 – food preparation and the prevention of contamination in the Building Code.		
Performance Criteria	Candidate	Assessor
<p>3.1 The objectives of Clause G3 – food preparation and the prevention of contamination are described in terms of the Building Code.</p> <p>Range contamination, infection, injury, loss of amenity, provision for people with disabilities.</p>	<p>Describe the objective and functional requirements relating to Clause G3 - food preparation and prevention of contamination in the New Zealand Building Code 1992</p>	<p>Description to include reference to protecting people in the following ways:</p> <ul style="list-style-type: none"> • from contamination • enabling hygienic food preparation • ensuring accessibility
<p>3.2 The functional requirements relating to Clause G3 – food preparation and the prevention of contamination are described in terms of the Building Code.</p>		<p>Description to include reference to:</p> <ul style="list-style-type: none"> • provision of spaces and facilities for hygienic preparation, • cooking and storage of food, adequate for intended use.
<p>3.3 The performance standards relating to Clause G3.3.1 – food preparation facilities are described in terms of the Building Code.</p> <p>Range any two of the following – space for refrigerator or alternative; means for food rinsing, utensil washing, and waste water disposal; means for cooking food; space and a surface for food preparation.</p>	<p>Describe the appropriate spaces and facilities required for food preparation and the prevention of contamination.</p> <p>any two of the following :</p> <ul style="list-style-type: none"> • adequate energy supply, • space and location of facilities, • access for people with disabilities, • spaces to be protected from contamination 	<p>Description to include any 2 of the following:</p> <ul style="list-style-type: none"> • fridges/perishable food storage areas • provision for food preparation, cooking methodology and utensil cleaning and waste water disposal • access for people with disabilities, • provided for each household unit
<p>3.4 The performance standards relating to Clause G3.3.2 – spaces for food preparation and utensil washing are described in terms of the Building Code.</p> <p>Range linings and work surfaces, impervious to moisture and easily cleaned, building elements free from hazardous substances, avoid accumulation of dirt</p>	<p>Describe the performance standards under G3 - food preparation and prevention of contamination with specific reference to linings and work surfaces.</p>	<p>Description to include all of the following:</p> <ul style="list-style-type: none"> • linings and work surfaces, • impervious to moisture • easily cleaned, • building elements free from hazardous substances, • avoid accumulation of dirt

Element 3 <i>Continued from the previous page...</i>		
Demonstrate knowledge of the objectives, functional requirements and performance standards of Clause G3 – food preparation and the prevention of contamination in the Building Code.		
Performance Criteria	Candidate	Assessor
<p>3.5 The performance standards relating to Clauses G3.3.3-G3.3.6 are described in terms of the Building Code.</p> <p>Range adequate energy supply, space and facilities located within individual household units, access for people with disabilities, protection from vermin and contamination.</p>	Describe the performance standards under G3 - food preparation and prevention of contamination with specific reference to energy supply, space and accessibility.	<p>Description to include all of the following:</p> <ul style="list-style-type: none"> adequate energy supply, location within individual household units, access for people with disabilities
Element 4		
Demonstrate knowledge of the objective, functional requirements and performance standards of Clause G4 – ventilation in the Building Code.		
<p>4.1 The objective of Clause G4 – ventilation is described in terms of the Building Code.</p> <p>Range contamination, infection, injury, loss of amenity, odour, offensive matter.</p>	<p>Scenario 3</p> <p>Describe in your own words the objective and functional requirements of Clause G4 - ventilation in the New Zealand Building Code 1992</p>	Safeguard people from illness of loss of amenity due to lack of fresh air.
4.2 The functional requirements relating to Clause G4 – ventilation are described in terms of the Building Code.		
4.3 The performance standards relating to Clause G4 – ventilation are described in accordance with the Building Code and applied to a given scenario.	Describe design features to allow adequate ventilation (assume that some toilets do not have external windows)	Answer to refer to adequate management and disposal of odours from cooking and sanitary facilities, and steam from laundering, kitchen processes and personal hygiene.

Element 5

Demonstrate knowledge of the objectives, functional requirements and performance standards of Clause G5 – interior environment in the Building Code.

Performance Criteria	Candidate	Assessor
5.1 The objectives of Clause G5 – interior environment are described in terms of the Building Code	Describe in your own words the objective of Clause G5 - interior environment in accordance with the New Zealand Building Code 1992	Description to include reference to the following points: <ul style="list-style-type: none">• protecting people from illness caused by low air temperature• protecting people from injury caused by inadequate activity space• protecting people from injury caused by unsafe installations• ensure accessibility
5.2 The functional requirements relating to Clause G5 – interior environment are described in terms of the Building Code	Describe in your own words the functional requirements relating to Clause G5 - interior environment in accordance with the New Zealand Building Code 1992 Explain why other functional requirements do not apply to Scenario 4	Description to include reference to the provision of adequate, controlled interior temperature and activity spaces for intended use Functional requirement c does apply
5.3 The performance standards relating to Clause G5 – interior environment are described in terms of the Building Code and applied to a given scenario	Using Scenario 4, what performance standards apply in this scenario? Explain why the other performance standards do not apply to Scenario 4.	The only performance criteria that apply are accessible reception counters and desks 5.3.4) All others do not apply.

Element 6

Demonstrate knowledge of the objective, functional requirements and performance standards of Clause G6 – airborne and impact sound in the Building Code.

Performance Criteria	Candidate	Assessor
6.1 The objective of Clause G6 – airborne and impact sound is described in terms of the Building Code	Describe in your own words the objective and functional requirements relating to Clause G6 - airborne and impact sound in accordance with the New Zealand Building Code 1992	Description to include reference to: <ul style="list-style-type: none">• the prevention of noise transmission to habitable spaces within another household units• prevention of undue noise transmission by means of suitable construction
6.2 The functional requirements relating to Clause G6 – airborne and impact sound are described in terms of the Building Code		
6.3 The performance standards relating to Clause G6 – airborne and impact sound are described in terms of the Building Code and applied to a given scenario	Describe the performance standards under Clause G6 - airborne and impact sound that apply to Scenario 2 Explain why this clause applies to Scenario 2	Description to include both the Sound Transmission Class requirements and the Impact Insulation Class requirements There are two household units within Scenario 2

Element 7

Demonstrate knowledge of the objective, functional requirements and performance standards of Clause G7 – natural light in the Building Code

Performance Criteria	Candidate	Assessor
7.1 The objective of Clause G7 – natural light is described in accordance with the Building Code	Describe the objective relating and functional requirements to Clause G7 - natural light in the New Zealand Building Code 1992	The description to include reference to: <ul style="list-style-type: none">• The protection of people from isolation of natural light• The provision of adequate openings for natural light and a visual awareness of the outside environment
7.2 The functional requirements of Clause G7 – natural light are described in accordance with Building Code	Using Scenario 1, describe the application of G7.	G7.2 Applies only to housing.
7.3 The performance measures for Clause G7 – natural light are described in accordance with the Building Code and applied to a given scenario.	Describe performance standards relating to Clause G7 - natural light. Define the meaning of a <i>standard year</i> as it relates to natural light in buildings (A2).	Description to include reference to both of the following: <ul style="list-style-type: none">• 30 lux at floor level and for 75% of the standard year• Transparent openings provided in suitable locations giving awareness of the outside

Element 8

Demonstrate knowledge of the objective, functional requirements and performance standards of Clause G8 – artificial light in the Building Code.

Performance Criteria	Candidate	Assessor
8.1 The objective of Clause G8 – artificial light is described in accordance with the Building Code	Describe in your own words the objective relating to Clause G8 - artificial light in the New Zealand Building Code 1992	Description to include reference to the protection of people from injury to inadequate lighting
8.2 The functional requirements of Clause G8 – artificial light are described in accordance with Building Code and applied to a given scenario	Describe in your own words the functional requirements of Clause G8 - artificial light in relation to Scenario 3 with a shared exit way	Description to include all of the following: <ul style="list-style-type: none">• exit ways• access routes• common spaces
8.3 The performance measures for Clause G8 – artificial light are described in accordance with the Building Code.	Describe the illuminance level requirement in relation to Clause G8 - artificial light in the New Zealand Building Code 1992	Description to include reference to the requirement for 20 lux at floor level

Element 9

Demonstrate knowledge of the objectives, functional requirements and performance standards of Clause G9 – electricity in the Building Code.

Performance Criteria	Candidate	Assessor
9.1 The objectives of Clause G9 – electricity are described in accordance with the Building Code.	Describe in your own words the objective and functional requirements relating to Clause G9 - electricity in the New Zealand Building Code 1992	Description to include reference to: <ul style="list-style-type: none">• the protection of people against outbreak of fire• prevention of contact with live parts• safe isolation• temperature control
9.2 The functional requirements of Clause G9 – electricity are described in accordance with Building Code.		
9.3 The performance measures for Clause G9 – electricity are described in accordance with the Building Code.	How do you ensure that the electrical installations are safe for intended use? Identify additional requirements for spaces used by people with disabilities?	Description to include evidence of an electrical works certificate under the Electrical Workers Registration Act Description to refer to height of switches, sockets and accessibility of outlets