Task Title: Interpreting General Notes and Building Codes

OALCF Cover Sheet – Practitioner Copy

Learner Name: _____

Date Started: _____

Date Completed: _____

Successful Completion: Yes ☐ No ☐

Goal Path: Employment ☐ Apprenticeship ☐

Secondary School ☐ Post Secondary ☐ Independence ☐

Task Description: The learner will read and interpret General Notes and building code information to answer questions about construction requirements.

Main Competency/Task Group/Level Indicator:

- Find and Use Information/Interpret documents/A2.2

Materials Required:

- Pen/pencil and paper and/or digital device

Learner Information

Tradespeople are required to comply with Ontario Building Code standards when completing their work. This ensures that buildings meet safety and other standards determined by the province of Ontario.

Contractors and/or tradespeople might encounter a General Notes page attached to a blueprint for a project. General Notes usually contain information about building codes that would not necessarily be shown or detailed on drawings or blueprints but are important to the project.

Scan “QUILL Learning Network - General Notes, GN1.01”.

GENERAL:

- All construction shall conform to the 2024 Ontario Building Code (OBC) Compendium as amended and other applicable Codes and authorities having jurisdiction.
- Unless noted otherwise, the Code references are from 2024 OBC, Division-B, Part 9.
- This document is for *general reference only*. Refer to 2024 OBC Compendium for complete Part 9 design requirements.

CONCRETE:

- Unless specified elsewhere the compressive strength of unreinforced concrete shall be not less than 15 MPa, after 28 days as per Sentence 9.3.1.6(1).
- Garage floors, carport floors and all exterior flatwork shall be not less than 32 MPa concrete with 5 to 8 percent air entrainment as per Sentences 9.3.1.6(1) and (2).
- Provide bond-breaking material between concrete floor slab and footings as per "Sentence 9.16.4.4(1)
- Garage floor in attached or built-in garages shall be sloped to drain liquids to the outdoors as per Sentence 9.35.2.2(1).

FOUNDATIONS:

- Footings and foundations shall conform to Section 9.15.
- All footings shall rest on undisturbed soils with an allowable bearing pressure of 75 kPa or greater for buildings of wood frame or masonry construction (see soils report where applicable)
- Where step footings are used, the vertical rise shall not exceed 600 mm, and the horizontal distance between risers shall be not less than 600 mm as per Article 9.15.3.9.
- Maximum height of backfill for foundation walls shall conform to Subsection 9.15.4.
- Exterior foundation walls shall extend not less than 150 mm above finished ground level as per Sentence 9.15.4.6(1).
- Exterior surfaces of concrete block foundation walls shall be parged with not less than 6 mm of mortar and finished as per Subsection 9.15.6.
- Roof drains, down spouts (Roof gutters) shall conform to Subsection 9.26.18.

MASONRY:

- Where top of foundation wall is reduced in thickness to install masonry exterior facing, fill voids between wall and facing with mortar as per Article 9.15.4.7.
- Masonry supporting beams and columns shall conform to Article 9.20.8.4.
- Corbelling of solid masonry units shall conform to Subsection 9.20.12.
- Provide weep holes spaced not more than 800 mm apart in masonry veneer walls as required in Article 9.20.13.8.
- Exposed flashing materials shall conform to Article 9.20.13.1. Provide flashing for weep holes in masonry veneer/masonry walls as per Articles 9.20.13.5.
- Flashing beneath weep holes in masonry veneer over wood frame walls shall be installed so that it extends from a point not less than 5 mm beyond the outer face of the building element below the flashing to a point 150 mm up the wood frame wall as per Sentence 9.20.13.6(2).
- Provide drip edge at windows sills as per Article 9.20.13.12.
- Masonry and concrete chimneys and flues shall conform to Section 9.21
- Provide lateral stability for chimneys per Article 9.21.4.5. Chimney Caps shall conform to Article 9.21.4.6. Brick thickness for chimneys shall conform to Article 9.21.4.8.
- Masonry fireplaces constructed on site shall conform to Section 9.22.
- Intersections of roofs and masonry walls shall conform to Articles 9.26.4.4 and 9.26.4.6.

PARTY WALLS, WALLS WITHIN 1.2m OF PROP. LINE:

- Party walls that are not constructed as firewalls require a 1 h fire-resistance rating (FRR). See Article 9.10.11.2.
- Party walls that are common to two dwelling units are required to have a minimum Apparent Sound Transmission Class (ASTC) of 47 or Sound Transmission Class Rating (STC) of 50. See Article 9.11.1.1.
- Exterior walls greater than 0.6 m but less than 1.2 m to a property line require a 45 min. fire resistance rating. See Clause 9.10.15.5(1.1)(b)
- Exterior walls located within 0.6 m of a property line require a 45 min. fire-resistance rating, and a non-combustible cladding. See Clause 9.10.15.5 (1.1)(c)
- The fire-resistance rating of supporting structure shall be equal to that of the structure above. See Article 9.10.8.3.

BUILDING STRUCTURE:

- Unless noted otherwise Lumber and Wood Products shall conform to Subsection 9.3.2.
- Built-up wood columns shall conform to Sentence 9.17.4.2(2).
- All members shall be so framed, anchored, fastened, tied and braced to provide the necessary strength and rigidity. See Article 9.23.2.1.
- Steel beams shall at least meet the requirements for Grade 350 W steel in CAN/CSA G40.21, "Structural Quality Steel". See Article 9.23.4.3.
- Provide lateral support for steel beams as per Sentence 9.23.4.3 (3).
- Building frames shall be anchored to the foundation, by fastening the sill plate with 12.7 mm diam. anchor bolts spaced not more than 2.4 m o.c. and embedded not less than 100 mm into the foundation. See Article 9.23.6.1.
- Provide adequate level bearing for all beams at the end supports as per Article 9.23.8.1.
- Posts supporting beams shall be provided with continuous solid support to the top of foundation wall or footing.
- Nailing/Bolting patterns for built-up wood beams shall conform to Sentences 9.23.8.3 (7) and (8).
- Joists framed into the side of a steel beam shall conform to Sentences 9.23.9.2(3), (4), (5).
- Provide joist twisting restraint as per Article 9.23.9.3.
- Non-loadbearing walls shall be supported by joists beneath the wall or on blocking between the joists as per Article 9.23.9.8.
- The size and spacing of wall studs shall conform to Table 9.23.10.1. Studs for walls not listed in Table 9.23.10.1 and supporting roof loads shall conform to Tables 9.23.10.1-A to 9.23.10.1-D.
- Provide continuity of studs as per Article 9.23.10.4.
- Provide edge support for subfloor as per Article 9.23.15.3.
- Roof sheathing shall conform to Subsection 9.23.16, and wall sheathing shall conform to Subsection 9.23.17.
- Sheathing membrane shall conform to CAN/CGSB-51.32-M, "Sheathing, Membrane, Breather Type" as per Article 9.27.3.2.
- Installation of roof trusses and/or engineered floor framing systems shall conform to the manufacturer's approved specifications and the OBC.
- All conventional roof framing members that meet or cross over trusses shall distribute the roof loads uniformly to the roof below and shall be spaced at maximum 600 mm o.c.
- Provide eaves protection for shingles, shakes or tile roofs as per Subsection 9.26.5.

DOORS, WINDOWS AND INTERIOR FINISHES:

- Rooms and spaces shall conform to Section 9.5.
- For doors and windows resistance to forced entry see Articles 9.7.5.2 and 9.7.5.3.
- Flame spread ratings shall not exceed 150 on walls and ceilings. See Article 9.10.17.1.
- Doors between garages and dwelling units shall be tight fitting, weather-stripped and have a self-closing device conforming to Sentences 9.10.13.15(1) and (2).
- Waterproof finish shall be provided on water resistant backing around showers and bathtubs as per Articles 9.29.2.2 and 9.29.10.4.
- Ceramic tile shall be set in a mortar bed or applied to a sound smooth base with a suitable adhesive as per Sentence 9.30.6.1(1)
- Panel-type subfloor to which ceramic tile is to be applied with adhesive shall have its edges supported according to Article 9.23.15.3.3.
- Except for bathrooms or water-closet rooms, finished rooms shall be provided with a minimum 0.28 m^2 unobstructed openable ventilation area to the outdoors where such rooms are not ventilated mechanically. See Subsection 9.32.2 and Table 9.32.2.2.

QUILL LEARNING NETWORK	GENERAL NOTES	GN1.01

Work Sheet

Task 1: What does OBC stand for and what version is referenced in the General Notes?

Answer:

Task 2: Which Canadian Standard from the Canadian Standards Association (CAN/CSA) lists the requirements for structural steel and what is the building code reference number?

Answer:

Task 3: What are the anchoring requirements for Building Frames and the building code reference number?

Answer:

Task 4: How should non-loadbearing wall partitions be supported? Include the building code reference number.

Answer:

Task 5: What is the maximum spacing required for all conventional roof framing members that meet or cross over trusses?

Answer:

Task 6: What is the minimum compressive strength of concrete used in Part 9 construction? Include the building code reference number.

Answer:

Task 7: List three areas where concrete would be required to meet a minimum strength of 32 MPA. Include the building code reference number.

Answer:

Answers

Task 1: What does OBC stand for and what version is referenced in the General Notes?

Answer: Ontario Building Code, 2024 OBC, Division – B, Part 9

Task 2: Which Canadian Standard from the Canadian Standards Association (CAN/CSA) lists the requirements for structural steel and what is the building code reference number?

Answer: CAN/CSA G40.21 "Structural Quality Steel" as per 9.23.4.3 of the 2024 OBC (*Located under "Building Structure" heading.)*

Task 3: What are the anchoring requirements for Building Frames and the building code reference number?

Answer: Building frames shall be anchored to the foundation, by fastening the sill plate with 12.7 mm diameter anchor bolts spaced not more than 2.4 m o.c. (on center) and embedded not less than 100 mm into the foundation as per 9.23.6.1 of the 2024 OBC. (*Located under "Building Structure" heading.*)

Task 4: How should non-loadbearing wall partitions be supported? Include the building code reference number.

Answer: The wall shall be supported by joists or on blocking beneath the joists as per 9.23.9.8 of the 2024 OBC. (*Located under "Building Structure" heading.*)

Task 5: What is the maximum spacing required for all conventional roof framing members that meet or cross over trusses?

Answer: Maximum of 600 mm o.c. (on center) (*Located under "Building Structure heading.*)

Task 6: What is the minimum compressive strength of concrete used in Part 9 construction? Include the building code reference number.

Answer: Not less than 15 MPA after 28 days as per Sentence 9.3.1.6(1) of the 2024 OBC (*Located under "Concrete" heading.*)

Task 7: List three areas where concrete would be required to meet a minimum strength of 32 MPA. Include the building code reference number.

Answer: Garage Floors, carport floors, and exterior flatwork as per 9.3.1.6(1) and (2) of the 2024 OBC. (*Located under "Concrete" heading.*)

Performance Descriptors

Levels	Performance Descriptors	Needs Work	Completes task with support from practitioner	Completes task independently
A2.2	Performs limited searches using one or two search criteria			
	Extracts information from tables and forms			
	Uses layout to locate information			
	Makes connections between parts of documents			
	Makes low-level inferences			
	Begins to identify sources and evaluate information			

This task: Was successfully completed ☐ Needs to be tried again ☐

Learner Comments:

Instructor (print): _____

Learner (print): _____