BC Building Code Level 1

This is a self-paced online course consisting of 13 Modules, you are required to pass the quiz at the end of each module with a minimum of 80%. This course takes approximately 16.5 hours to complete.

LEVEL 1 – Course Modules

Module 1: Introduction & Basics of Structural Design Requirements

This module has been designed to enhance your knowledge of Section 9.4. of the BC Building Code by helping, you interpret and implement the principles of the Code with respect to houses and simple industrial buildings. During this module we introduce you to the overall program as well as the basics of structural design requirements for houses.

Module 2a and 2b: Egress, Stairs, Ramps, Landings, Handrails, and Guards

This module has been designed to enhance your knowledge of Section 9.8. and 9.9. of the BC Building Code by helping, you interpret and implement the principles of the Code with respect to houses and simple industrial buildings. This module is split into two separate modules. During this module we'll introduce you to the concepts of means of egress, stairs, ramps, landings, handrails, and guards.

Module 3 a-e: Fire Protection

This module has been designed to enhance your knowledge of Section 9.10. of the BC Building Code by helping, you interpret and implement the principles of the Code with respect to houses and simple industrial buildings. This module is split into six separate modules. Each module has several lessons with a grade quiz at the end of the sixth module.

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Module 4: Sound Transmission

This module has been designed to enhance your knowledge of Section 9.11. of the BC Building Code by helping, you to interpret and implement the principles of the Code with respect to houses. During this module we'll introduce you to the basics of sound transmission.

Module 5: Excavation

This module introduces you to Excavation as it applies to houses and simple industrial buildings. This module covers Subsection 9.12.1. through 9.12.4. of the BC Building Code.

Module 6: Damproofing, Waterproofing, and Soil Gas Control

This module has been designed to enhance your knowledge of Section 9.13. of the BC Building Code by helping, you interpret and implement the principles of the Code with respect to houses and simple industrial buildings. This module covers Subsections 9.13.1., 9.13.2. 9.13.3., and 9.13.4. of the BC Building Code. During this module we'll introduce you to the concepts of damp-proofing, waterproofing, and soil gas control, which now also requires Radon mitigation requirements throughout all of BC.

Module 7: Drainage

This module has been designed to enhance your knowledge of Section 9.14. of the BC Building Code by helping, you interpret and implement the principles of the Code with respect to houses and simple industrial buildings. This module covers certain Subsections of Section 9.14. of the BC Building Code. During this module we'll introduce you to the basics of drainage.

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Module 8: Footings and Foundations

This module has been designed to enhance your knowledge of Section 9.15. of the BC Building Code by helping, you interpret and implement the principles of the Code with respect to houses and simple industrial buildings. This module introduces you to the basics of footings and foundations.

Module 9: Roof Spaces

This module has been designed to enhance your knowledge of Section 9.19. of the BC Building Code by helping, you interpret and implement the principles of the Code with respect to houses and simple industrial buildings. This module discusses roof spaces. During this module we'll introduce you to the concepts of venting and roof access.

Module 10a and 10b: Masonry and ICF Construction

This module has been designed to enhance your knowledge of Section 9.20. of the BC Building Code by helping, you interpret and implement the principles of the Code with respect to houses and simple industrial buildings. During this module, we will introduce you to the concepts related to masonry and flat insulating concrete form walls.

Module 11 a-d: Wood Frame Construction

This module has been designed to enhance your knowledge of Section 9.23. of the BC Building Code by helping, you interpret and implement the principles of the Code with respect to houses and simple industrial buildings. This module is split into four separate modules. During this module we'll introduce you to the concepts related to wood frame construction, and the new requirement throughout all of BC for bracing to resist lateral wind and earthquake loads.

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Module 12a and 12b: Heat Transfer and Energy Efficiency

This module has been designed to enhance your knowledge of Section 9.25. and 9.36. of the BC Building Code by helping, you interpret and implement the principles of the Code with respect to houses. This module is split into two topics. The first is related to heat transfer, air leakage, and condensation control. The second is all about energy efficiency.

We are now permitted four definitive paths to achieve energy efficiency expectations required by the BC Building Code. Section 9.36. contains extensive language for the prescriptive and trade-off path, the performance path and the Energy Step Code, which is a new Subsection 9.36.6. in the 2024 BC Building Code. While the fourth path is relegated to the relatively new National Energy Code for Buildings (NECB) which is a separate and additional document.

Note: this course does not include a review of the requirements for the Performance, Energy Step Code nor the NECB paths or Part 10 Energy Efficiency. Module 12b is focused primarily on the prescriptive or trade-off path requirements in Sub-Sections 9.36.2. Building Envelope, 9.36.3. HVAC Requirements and 9.36.4. Service Water Heating Systems.

Module 13: Secondary Suites

This module introduces you to Secondary Suites and the references found throughout Part 9. The Code allows for secondary suites to be established in an existing building constructed as a single dwelling building with or without an attached garage that serves the dwelling unit. As you become familiar with these requirements you will realize that many of the requirements are clarifications or exemptions for those found in Section 9.10. and other Sections of the Code.

Converting a single fire compartment building into two or three fire compartments

can be intrusive and costly especially when dealing with finished spaces. New alterations to buildings can take advantage of these requirements; however, you will require compliance with fire protection requirements when they are accessible during construction.

In this section you will: define the term Secondary Suite according to the BC Building Code requirements; identify compliance and alternate compliance methods with the BCBC; identify the requirements for heights of rooms or spaces in secondary suites; identify the requirements for fire protection and egress related to secondary suites; describe the requirements for various assembly components for secondary suites such as stairs, landings, handrails, and guards; and list the requirements for separation of suites and sound control for secondary suites.