

Navigating BC's 2024 Building Code Changes & Electrification

This one day (8 hour), 8 point CPD training is to provide updates to the 2024 BC building code emphasizing energy efficiency and sustainability. This encompasses comprehensive transition to electrified systems particularly in design requirements for heating and cooling with cold climate dual fuel systems in consideration of cleaner energy sources including an introduction to the BC Carbon Code.

Understanding these requirements positions you to better meet the evolving demands of energy-efficient housing in British Columbia.

The 2024 BC Building Code update focuses on familiarization with the latest updates and requirements.

Participants will review advanced construction techniques and materials compliant with the latest code revisions and application to construction projects.

Practical exercises will simulate real-world scenarios, in applying code requirements to diverse construction projects. Review changes to plumbing and electrical codes to ensure proper installation of systems, adherence to safety standards, and compliance with code regulations.

Through interactive sessions, participants will gain the knowledge needed to implement the code effectively, fostering more resilient building practices in British Columbia.

Home builders in BC are being mandated in some municipalities to integrate electrification measures into their projects. This involves prioritizing vehicle charging infrastructure and heating systems to reduce carbon emissions.

Electrification of BC encompasses comprehensive transition to electrified systems and sustainable energy solutions.

Home builders require some knowledge of the specific electrical code requirements for installing electric vehicle (EV) charging stations in British Columbia. This includes understanding circuit capacity, wiring specifications and safety considerations to ensure compliant and safe installations.

Understanding the changing needs of homeowners and the available options helps builders select the appropriate charging infrastructure for residential projects. Builders should be familiar with different types of EV charging stations (Level 1, Level 2, and DC fast chargers)

Requirements in the Interior of BC to better understand the unique climate conditions of the region, characterized by hot summers and cold winters.

By incorporating cold climate dual fuel heat pumps, builders can offer homeowners a reliable and energy-efficient heating solution tailored to the climate demands of British Columbia.

Recognizing that air conditioning functionality is integrated into cold climate dual fuel heat pumps, offering year-round comfort. Understanding the zoning capabilities of these systems enables builders to optimize temperature control in different areas of the home.

Installing heat pumps that offer both heating and cooling capabilities, making them a versatile and practical choice for HVAC systems.

Builders need some knowledge of proper installation techniques and sizing requirements for heat pumps and air conditioners to ensure optimal performance and efficiency. This includes considerations such as ductwork design, placement of outdoor units, and proper insulation to minimize heat loss or gain, ultimately enhancing the comfort and energy efficiency of residential properties.

Home builders should be familiar with CSA F280, this outlines requirements for heat loss and gain design in residential buildings.

CSA F280 also provides guidelines for selecting appropriate heating systems based on calculated heat loss and gain. Compliance with the design ensures homes are efficiently heated while minimizing energy consumption and costs.

"Sequencing & Coordination of Mechanical System Installation"

Airtightness Testing

- Coordinate mechanical installation to comply with required airtightness testing.

Inspections

- Address any discrepancies promptly to maintain compliance.

Commissioning

- Implement an approach to commission mechanical systems.
- Verify functionality and efficiency to align with requirements.

Compliance Reports

Document installation, testing, and verification processes for review.

Introduction to the BC Carbon Code provides a foundational understanding of the requirements involving highlights and emphasis on reducing carbon emissions in residential construction through sustainable practices.

Familiarity with these fundamentals empowers builders to contribute to a greener future while meeting the evolving demands of environmentally conscious homeowners in British Columbia.

Builders need to grasp the code's key principles, such as energy efficiency standards, renewable energy integration, and carbon offset requirements, to align their projects with regulatory compliance.

Familiarity with sustainable building materials, energy-efficient systems, and construction techniques is essential for compliance with the code's standards.

Adherence to these regulations not only promotes environmental stewardship but also ensures the construction of resilient and future-ready homes in British Columbia.