Building Energy Modelling Professional – tools, software and compliance

CIET
SUSTAINABLE ENERGY TRAINING

CAN-QUEST is a Canadian adaptation of eQUEST. This powerful energy modelling software can assess and demonstrate performance path compliance with the National Energy Code of Canada for Buildings 2011 (NECB 2011). It can also be used to support the design of high performance commercial and institutional buildings. This hands-on 2-day workshop will provide specific training on the software and explore its features as well as the modelling process.

Objectives

Upon training completion, participants will be able to:

- Prepare an energy model in CAN-QUEST
- Use Wizards to set up preliminary models
- Use Detailed Mode for accurate modelling
- Understand DOE reporting and calculations
- Use CAN-QUEST and eQuest as a compliance tool

Agenda

DAY 1

- Wizard – set up the energy model in CanQuest or eQuest
  - Project and Site Data (building type, location, seasons)
  - Shells and Zoning (building shells, 3D-viewer, zoning principles, space types, importing custom footprints and zoning)
- Run the simulation
- Important Files
- Detailed Interface – execute the energy model - Creating Schedules in CAN-QUEST - Envelope (building up a wall, roofs, windows and floors, below-grade construction and reference building envelope) - Internal Loads (lighting and equipment) - Water-side HVAC (loops, boilers, chillers, heat rejection, pumps, controls, reference building) - Air-side – HVAC (systems basics, fans, outdoor air, cooling, heating)
- Run the Simulation and Results
- Create Compliance Run

DAY 2

Case Study

Who should attend?

This short thematic course is ideal for the following clientele:

- Energy-related design decision makers
- Energy modellers
- Architects
- Electrical engineers
- Mechanical engineers
- Engineers and technicians

Logistics

CEUs: 1.4

CSEP Points: 3

Visit cietcanada.com for more information on training options and registration or contact us at info@cietcanada.com.