



Civil Engineering Technology's Technology Solutions for the Workplace

Upcoming Courses 2016

INSTRUCTOR

BRITTANY COUGHLIN

Brittany assists clients in improving the energy efficiency of their buildings through passive design measures that yield measurable savings. She provides input to design teams to assist projects in meeting building code and green building performance requirements, and to cost-effectively optimize the building's energy performance. She also helps clients understand and apply for incentive funding for energy efficiency measures.

Brittany works on research and guideline development projects to advance industry understanding of energy and building enclosure issues. Brittany has completed measurement and verification studies of high performance buildings to assess actual energy savings. She has presented at conferences across North America on a variety of topics related to energy consumption and conservation in buildings.

Brittany is an Associate and shareholder of RDH and is committed to the success of RDH projects.

INQUIRIES

Courses:

Tammy Harper
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Registration:

Louise Wood
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For course descriptions and registration forms go to:

rrc.ca/techsolutions

Day 1 – April 6, 2016 Opaque Enclosure Elements

- ✓ Overview of calculating thermal performance of opaque enclosure elements (effective R-values), relationship to whole building energy consumption, and code requirements
- ✓ THERM 101 – Overview of drawing, boundary conditions, simulating, viewing results
- ✓ Simulating typical wall and roof assemblies in THERM – work through examples such as steel studs, wood frame, exterior insulated assemblies
- ✓ Modeling 3D in 2D – effective conductivities, slab edge and balcony simulation examples, introduction to 3D heat transfer modeling
- ✓ Overall R-value and U-value calculations for a building – assemblies, area takeoffs, area weighted U-value calculations

Day 2 – April 7, 2016 Fenestration

- ✓ Overview of calculating thermal performance for fenestration, relationship to whole building energy consumption, and code requirements
- ✓ Using WINDOW to model centre of glazing U-values
- ✓ Using THERM to model frame and edge U-values
- ✓ Using WINDOW to calculate overall product performance
- ✓ Overall U-value calculations for commercial glazing and project-specific configurations

Other Information:

Cost:

One day only: \$350
Both days: \$600

Location:

Manitoba Hydro Place
360 Portage Ave
Winnipeg MB

Time:

8:00 am to 4:00 pm