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**ROI Engineering Inc.**

## ANSYS Classic Heat Transfer

### 2 Days

Engineers responsible for analyzing the thermal response of structures and components, are encouraged to take this course. The course focuses on performing steady-state, transient, linear and nonlinear thermal analyses.

After completing the seminar, analysts should be able to analyze:

- thermal responses of structures involving conduction, convection, and radiation
- the response of structures exhibiting special heat transfer phenomena including thermal-stress coupling and phase change.

Prerequisite: Introduction to ANSYS, Part I

Course topics include:

- Fundamental Concepts
- Steady State Heat Transfer (no mass transport)
- Additional Considerations for Nonlinear Analysis
- Transient Analysis
- Complex, Time & Spatially Varying Boundary Conditions
- Additional Convection / Heat Flux Loading Options and Simple Thermal / Flow Elements
- Radiation Heat Transfer
- Phase Change Analysis
- The Finite Element Approach to Thermal Analysis

Each course chapter is followed by "hands-on" workshops and exercises.

## ROI Engineering Inc.

**Engineering for a Return On Investment**

ROI Engineering—Toronto  
50 Ranson Drive  
Suite 120  
Toronto, Ontario M9W 1B3

ROI Engineering—Montreal  
550 Chemin Du Golf  
Suite 100  
Verdun, Quebec H3E 1A8

ROI Engineering—Calgary  
1010—1st Street SW  
Suite 430  
Calgary, Alberta T2R 1K4

Phone: 416.249.1471 x221  
Fax: 416.249.5045  
E-mail: [DBartnyk@SimuTechGroup.ca](mailto:DBartnyk@SimuTechGroup.ca)

