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ROI Engineering Inc.

ANSYS Workbench Simulation Heat Transfer

2 Days

ANSYS Workbench-Simulation Heat Transfer is for engineers wishing to use Workbench Simulation to analyze the thermal response of structures and components. The course focuses on performing steady-state, transient, linear and nonlinear thermal analyses.

After completing the course, analysts should be able to analyze, in Workbench Simulation, the thermal responses of structures involving conduction, convection, and radiation.

Prerequisite: Basic Familiarity with Heat Transfer and ANSYS DesignModeler

The training course provides students with the ability to operate ANSYS Workbench-Simulation and the basic understanding of simulation concepts and results interpretation.

Course Topics Include:

- Fundamental Concepts of Heat Transfer
- Fundamental Concepts of Simulation
- Steady State Heat Transfer (no mass transport)
- Nonlinear and Transient Analysis
- Additional Convection/Heat Flux Loading Options and Simple Thermal/Flow Elements
- Radiation Heat Transfer
- Phase Change Analysis
- One Dimensional Flow Elements in Thermal Analysis

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

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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: OBartnyk@SimuTechGroup.ca

