



CAD-IT CONSULTANTS (ASIA) PTE LTD TRAINING COURSES

COURSE NAME : ANSYS Workbench – Heat Transfer
DURATION : 2 x 8hrs sessions

* Creditable for QUT Master program and Continuing Development (CPD) courses offered by the Professional Engineers Board (PEB) Singapore.

OBJECTIVES

This training course is intended for attendees who wish to analyse the thermal response of structures and components. The course focuses on performing steady-state, transient, linear and nonlinear analyses.

Upon completion of the course, attendees should be able to analyse, in ANSYS Workbench, the thermal responses of structures involving conduction, convection and radiation.

WHO SHOULD ATTEND

This training course is designed for engineers who wish to analyse the thermal response of structures and components.

PRE-REQUISITES

Engineering knowledge and familiarity with computer (PC or workstation) are required. Knowledge of finite element theory is also useful. Participants must have completed the training courses *ANSYS Workbench – DesignModeler* and *ANSYS Workbench Mechanical – Introduction*.

COURSE SYLLABUS

- Fundamental Concepts of Heat Transfer
- Steady State Heat Transfer
- 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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