



## CAD-IT CONSULTANTS (ASIA) PTE LTD TRAINING COURSES

**COURSE NAME : ANSYS Workbench Mechanical – Introduction**  
**DURATION : 3 x 8hrs sessions**

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

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### OBJECTIVES

This training course covers the basics of using ANSYS Mechanical in performing structural and thermal analyses. It aims to provide a general understanding of the user interface, as related to geometry import, meshing, application of loads and supports, and post-processing. The procedure for performing finite element analysis (FEA) simulations, including linear static, modal, and harmonic structural analyses and nonlinear steady-state thermal analyses will also be covered. Trainees will be taught to utilize parameters for 'what-if' scenarios and to interface with the ANSYS solver for more advanced functionality as well.

### WHO SHOULD ATTEND

This training course is intended for all new or occasional *ANSYS Mechanical* users, regardless of the CAD software used.

### PRE-REQUISITES

Engineering knowledge is required. Familiarity with computer (PC or workstation) and knowledge of finite element theory is useful.

### COURSE SYLLABUS

- ANSYS Workbench Overview
- ANSYS Mechanical Overview
- Mechanical Basics
- General Preprocessing
- Static Structural Analysis
- Vibration Analysis
- Thermal Analysis
- Linear Buckling Analysis
- Results Post-processing
- CAD & Parameters

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

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