



CAD-IT CONSULTANTS (ASIA) PTE LTD TRAINING COURSES

COURSE NAME : Introduction to Finite Element Analysis Part 2

DURATION : 2 x 8hrs session

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

OBJECTIVES

Attendees will be trained in the additional features of linear structural and steady-state thermal analysis. A series of more advanced topics will be fundamentally covered. They include: Parametric Modeling, Coupling, Modal analysis, Nonlinearity and Bonded Contact amongst others.

WHO SHOULD ATTEND

The course is intended for engineers or research fellows who need to conduct Finite Element Analysis. New FEA users are highly encouraged to attend both Introduction to Finite Element Analysis Part 1 and Introduction to Finite Element Analysis Part 2 courses. PEB members are able to obtain 35 PDUs upon completion of both courses.

PRE-REQUISITES

Attendees must have completed the Introduction to Finite Element Analysis Part 1 course prior to this course. Engineering knowledge is required. Familiarity with the computer (PC or workstation) and knowledge of finite element theory are useful but not essential.

COURSE SYLLABUS

SESSION ONE

- Array Parameter Techniques
- Coupling and Constraint
- Advanced loading with Surface Element
- Beam modeling with customized section

SESSION TWO

- Modal Analysis
- Coupled Field
- Submodeling
- Nonlinear analysis basic
- Bonded contact
- Macro Basics
- Customized Discussion

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

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