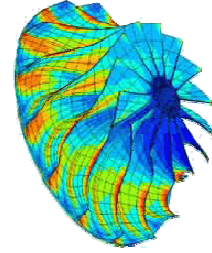


Introduction to Finite Element Analysis Training Course

Venue : IME CADCAM TRAINING CENTRE SDN BHD (Petaling Jaya, Selangor)
Duration : 2 days
Time : 9am to 5pm
(HRDF Claimable)



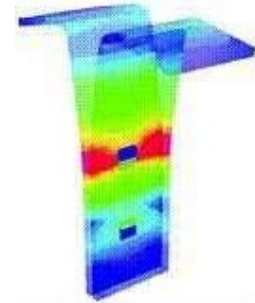
Objective:

To introduce and improve the engineer's skills and understanding of finite element analysis (FEA) techniques starting with background theory of structural mechanics. It focuses on the fundamental theories and best practice methods that should be considered for successful finite element analysis (FEA).

Upon completing the course, participants will have a better understanding of the practices and procedures that govern the design and implementation of finite element analysis in their design cycle. They will also be able to apply this FEA modeling skills to produce reliable FEA results, which can be safely used as part of the design and approval process.

Who Should Attend :

- Designers/Engineers with little or no background in Finite Element Analysis
- Managers/Head of department who are considering investing in FEA
- University students studying FEA



Course Content:

- **Introduction to the Finite Element Method**
 - Fundamentals of Solid & Structural Mechanics
 - Introduction to Finite Element Analysis (FEA)
 - 1D, 2D and 3D Elements
 - Accuracy & Convergence
 - Analysis Types
- **FE Modeling Skills**
 - Design & Practical Considerations
 - Element Selection
 - Boundary Conditions
 - Element Properties
 - Material Properties & Selection
 - Meshing Strategy and Geometry Consideration
 - 2D Surface Meshing
 - Combined 2D & 3D Meshing
 - 3D Meshing
 - Reviewing Results
 - Technical References
 - Applications in Different Industry

Prerequisites:

- No previous finite element analysis or computer-based modeling experience is required
- A basic knowledge of static and strength of materials is recommended

Class Format

- Instructor led
- Presentation, exercises, evaluation and discussion
- Hands-on with software application

PETALING JAYA
22A, Jalan PJS 1/46
46150 Petaling Jaya
Selangor
Tel: + 60 3 – 7783 6866
Fax: + 60 3 – 7781 1185

PERAK
63, Jalan Perindustrian Silibin 1
Kawasan Perindustrian Silibin
30100 Ipoh, Perak
Tel: + 60 5 – 527 3133
Fax: + 60 5 – 527 3163

PENANG
68A, Jalan Perai Jaya 4
13700 Prai
Penang
Tel : + 60 4 – 399 5571
Fax : + 60 4 – 399 5572

JOHOR
11-A, Jalan Jati 2, Taman Nusa
Bestari Jaya Bandar Nusa Jaya
81300 Skudai, Johor
Tel: + 60 7 – 512 7978
Fax: + 60 7 – 512 2162