

## **MECHANICA<sup>®</sup> Independent Training for New Mechanica Users (3 days)**

**'In'-Tuition – In-house, Intensive training for Individuals**  
**We come to you to deliver these courses.**

**You use your own software, we supply the trainer.**

**Standard Course :- £2925 for 1 person, £3150 for 2 people, £3300 for 3 people.**  
**Contact us for a quote if you have more people or for a customised course.**

### **Content as of 28<sup>th</sup> Jan 2010**

This course provides an introduction to the functionality available in the Mechanica Independent licence, with student examples for the most commonly used functions. It is intended for users with no Pro/Engineer experience who wish to use Mechanica in Independent Mode, or for companies without Pro/Engineer. Please note that you will need a Mechanica Independent licence. Please also see our other Courses

- Introduction
- FE Modelling with Mechanica
  - FE Theory
  - Element Types
  - Loads & Constraints
  - Materials
  - Types of Analysis
  - Meshing
  - Measures
  - Convergence
  - Results
- Creating Geometry
- Setting up an Analysis
- AutoGEM
- 2D Plane Stress Analysis
- 2D Plane Strain Analysis
- 2D Axisymmetric Models
- Plates & Shells
- Sensitivity & Optimisation
  - Design Variables
- Temperature Loads
- Beams & Frames
  - Distributed Loads
  - Shear & Moment Diagrams
  - Beam Releases
- Solid Models
  - Manual Meshing
  - Automatic Meshing
- Assemblies
  - Welds
  - Spot welds
  - Rigid Links
  - Bolted Joints
- Loads & Constraints
  - Bearing Loads
  - Load as a Function of Coordinates
  - TLAP
  - Enforced Displacement
  - Gravity Loads
  - Cyclic Symmetry
- Results
- Overview of Other Analyses
- Other Aspects
- Intro to Integrated Mode

Pre-requisite : None

Note: It may not be possible to get through everything in the time, in which case the most appropriate items will be selected.

\*Prices include travel expenses for sites within 100 miles of Northampton, but not VAT. Extra expenses may be charged for other sites.  
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