

MECHANICA[®] Advanced Training

– Thermal Analysis (1 day)

‘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 :- £975 for 1 person, £1050 for 2 people, £1100 for 3 people.

Contact us for a quote if you have more people or for a customised course.

Content as of 13th Jan 2011

An Advanced Mechanica licence is needed for the Transient Thermal example. This course covers thermal aspects in more depth than in the Intermediate course. The course contains a mixture of lectures and prepared examples. Students may also bring their own examples
Also see our other Advanced and Specialist Courses.

The thermal simulation environment that’s integrated with Pro/Mechanica Structure is finite element based and capable of steady-state and transient analysis, Thermal also contains powerful sensitivity and optimisation tools. The course covers

- Introduction
- Heat Transfer Theory
 - Conduction
 - Convection
 - Radiation
 - Heat Transfer Coefficients
 - Thermal Resistance
- Steady State Thermal Analysis
- Transient Thermal Analysis
 - Time-varying conditions
- Thermal Contact Resistance
- Thermal Sensitivity & Optimisation
- Transferring Thermal Loads into Structure
 - Global Thermal loads
 - MEC/T Loads
 - Imported Thermal Loads
- When Independent Mechanica is useful
 - Special cases
- Reviewing & Interpreting Results

Pre-requisite : Previous Pro/Engineer & Pro/Mechanica experience or training

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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