

**COMPUTER & SOFTWARE
COMMERCIAL CENTER
(CompuSOFT)**



Is pleased to announce
A Training Seminar on
**Intermediate Thermo-
Mechanical Finite Element
Analysis Using the ANSYS Suite
of Products**

ANSYS
(5days)

Trainer: Dr. Ismail Z Jalisi

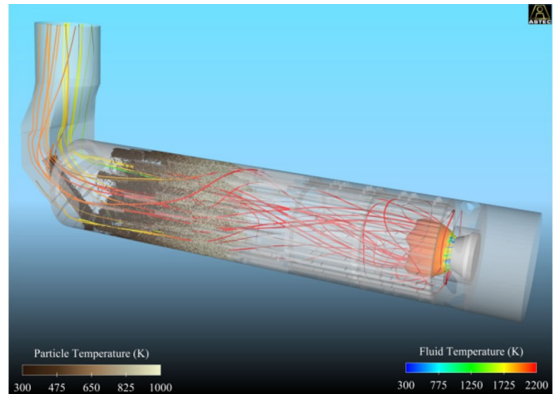
At DAMMAM
21st to 25th Jan 2012

Timings: Saturday - Wednesday
8:00 AM to 5:00 PM

COURSE FEE: US \$ 3000

Computer & Software Comm. Center
P.O. BOX 12482, DAMMAM, 31473, KSA
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**ANSYS Simulation Structural
Nonlinearities.**

ANSYS Simulation Dynamics.

ANSYS Simulation Heat Transfer

**If you want to be a skilled user of
ANSYS and also become a better
engineer, register today.**

Who Should Attend?

Engineers, Designers and Managers looking to drive forward virtual Prototyping, leveraging advance engineering methodologies to attack cost.

Attendees must have a sound grasp of the basics of FEA and be familiar with the material in the Introductory course.

How The Course Will Help You?

- * Set up and solve nonlinear models, including metal plasticity and hyper elasticity.
- * Carry out advanced contact problems within Workbench.
- * Use nonlinear diagnostics to monitor solutions.
- * Simulation enhancement through ANSYS commands.

- * Understand the mechanisms of heat transfer.
- * Understand which heat transfer mechanisms are important for a particular analysis and how to model them.
- * Familiarize with the material properties and the boundary conditions required for heat transfer analyses.
- * Deal with nonlinear thermal analyses and the tools required to achieve converged solutions.
- * Perform a transient thermal analysis.
- * Study the dynamic behavior of a structure.
- * Perform a modal analysis to determine the characteristic frequencies and mode shapes of your structure.
- * Perform harmonic and transient analysis to calculate the structure response to a time varying load.
- * Familiarize with setting up a model for dynamic analysis
- * Perform a random vibration analysis.

Course Outline

Day 1:

- * General Non-linear Procedures
 - * Basic Contact
 - * Advanced Contact I &II

- * Metal Plasticity

Day 2:

- * Hyper- elasticity
- * Non-linear Diagnostics
 - * Heat transfer basics
- * Non-linear thermal analysis

Day 3:

- * Transient thermal analysis
- * Surface-to-Surface Radiation
 - * Phase Change Analysis
- * Use of Simple Thermal/Flow Elements – Thermal Stress

Day 4 :

- * Additional Boundary Conditions and Data Transfers
 - * Introduction to Dynamics
 - * Modal Analysis
 - * Harmonic Analysis

Day 5 :

- * Flexible Dynamic Analysis
- * Random Vibration (PSD) Analysis

About the Trainer:

Dr. Ismail Z Jalisi

M.Eng. Ph.D. A.C.G.I. D.I.C. C.Eng. M.I.Mech.E.

M.Eng. (Hons) , Imperial College, 1997

Technical Expert on Finite Element Analysis, Tribology & Physics of Failure

Dr Jalisi is a professional engineer with experience in the Oil, Gas & Petrochemical industries, as well as across a range of other sectors. He has dealt with problems on a consultative basis from both industrial and academic perspectives. Dr Jalisi has reviewed system architectures, advised on technology adoption as well as worked on sub-systems in a number of industries. His strong academic background and sound engineering judgment has enabled him to advise clients in accordance with governing regulations, both local and international, in the Petrochemical industry.

Application Form

Course: **Intermediate Thermo-Mechanical Finite Element Analysis Using**

ANSYS (5 days)

21st - 25th Jan 2012

Venue: Al-Hamra Golden Tulip Hotel – Dammam

Trainee Name : _____

Job Title : _____

Degree : _____

Company : _____

Address : _____

City : _____

Phone : _____ Fax : _____

Email : _____

COURSE FEE: US \$ 3000

Approved By : _____

Authorized Signature : _____

Date : _____

The course is limited to 12 persons only

- 1.Fee Includes: Seminar fee, Course notes, Lunch, Coffee/Tea breaks and Snacks.
- 2.Fax or mail the complete Application form to make your reservation
- 3.Payment must be made in full 10 days before the start of the course.
- 4.We reserve the right to cancel the course if the minimum enrollment has not been reached. Full refund will be made in such case.

Contact Person:

Hosam Abbas

Training Manager

Computer & Software Commercial Center
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Bank Info

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