

# **Ansys WORKBENCH FEA and CFD Training Program**

## **Learning Outcomes**

You will be able to...

- Create your own simulation model
- Create the appropriate mesh a/c to the requirement
- Can solve a real life problem related to the mentioned domains
- Select the best solution controls
- Extract out your desired result with in the Software domains

**100,000+ Students  
have been Trained**

since  
1997

**Program is  
offered by**

**3D EDUCATORS  
INTL**  
22 Years of  
Excellence in  
Training &  
Development

**Invest in  
People the  
only Asset  
that Appreciates**



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# **Ansys Workbench**

## **Training Program**

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# **Ansys Workbench Training Program**

## **About the Program Designer & Instructor**

The “ANSYS” Program has been designed and will be conducted the Senior Engineers who has more than Ten years of experience in the field of Development and Engineering Management.

The Person are Certified where he has been providing his services in industry for last 12 years and conducting so many different session with the ANSYS and work or develop the real time applications for here and abroad.

At present, faculty is working in the same technology and working as a senior position in the renowned organization, further he is also involved in training and development for last fifteen years.

## **Inauguration**

The Training Program will be inaugurated by a senior member of 3DEducators.

## **Program Structure**

No of classes per week	<b>01 Class</b>
Duration of each class	<b>02 - Hour</b>

## **Other Learning Activities**

Classroom Assignments	<b>02</b>
Presentations by Trainees	<b>02</b>



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# Ansys Workbench

## Training Program

### Ansys Course Outline:

This course provides practical knowledge (with theoretical lectures) to allow engineers to competently perform finite element analysis (FEA) for Structural and Thermal problems. Participants will be able to efficiently predict and evaluate structural and thermal response of various mechanical components by attending this course. Moreover, it will also bring clarity and insight to the students through customized training material (presentations & software workshops) and professional trainer.

1. Introduction to Ansys Workbench
2. Sketching (2D)
3. Geometry making (3D)
4. Meshing Techniques
5. Pre-Processing
6. Post-Processing
7. Solution Controls
8. Result Evaluation
9. Coupled Analysis

### Major Domains:

1. Static Structural
  2. Transient Structural
  3. Explicit Dynamics
  4. Transient Thermal
  5. Fluid Flow (Fluent) (Steady State Flow)
- Analysis of Trusses, Disc Brakes & Rolling operations
  - Effects of static and dynamic loading on I-sec beam
  - Testing strength of a 2mm Titanium plate with a bullet impact
  - Thermal analysis of a bimetallic strip and heat flow through the fins
  - 2D, axis symmetric & periodic pipe flows
  - Heat Exchangers and flow through Elbow pipes
  - Analysis of C-D nozzles with subsonic flows
  - Stress Analysis of a Propeller airfoil due to wind velocity
  - Calculating the natural frequency of I-sec Beam



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## **Training Program**

### **ONLINE LIVE CLASSES FACILITY AVAILABLE**

- Instructor Led Training
- Real Time Presentations
- Interactive Classes
- Complete Notes and Other Stuff shall be provided through our Secure Student Login Member's Area
- For Online Live Classes, you may please download the Admission Form through our website <http://www.3deducators.com>. Fill it properly and attached the required document along with Picture and send back to [info@3deducators.com](mailto:info@3deducators.com) with scanned fee submitted voucher in the bank.
- For Pakistan you may submit the fee at any MCB Branch with the title of "3D EDUCATORS-TRAINERS & CONSULTANTS".
- If you are outside Pakistan then you may transfer via Bank to Bank or any western union, Fast Track, Money Gram or else International Transfer Body.
- After Admission, if you don't have GMAIL Account then you are requested to kindly make one GMAIL Account and shared it [info@3deducators.com](mailto:info@3deducators.com). Then further correspondence shall be made by our institute official.
- Extra Bandwidth Charges shall be incurred.

### **DISTANCE NOT MATTER**

You can join in the live classes Sessions of 3D EDUCATORS – TRAINERS & CONSULTANTS from anywhere of the world.



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# Ansys

## Training Program

### PRECAUTIONARY MEASURES

- During Classes, you are requested to make sure that you are in isolated room, where no noise should be there except your voice.
- Kindly Switch Off your Cell Phone during the class, because it will disturb the quorum of class.
- If you have taken the admission in the course online lonely, then ethically it is recommended and suggested that you alone in the class.
- Recording of Lectures are not allowed at your end.

This world is emerging and growing in the 21st Century very rapidly because of latest and remarkable technologies and its advancement. Due to advancement of technology, we 3D EDUCATORS offer Live Interactive class sessions

3D EDUCATORS believe on Information Technology and its systems. Now you can also avail this facility at your home.

### CONTACT US

021-34141329, 0333-2402474  
021-34857148

[info@3deducators.com](mailto:info@3deducators.com)  
<http://www.3deducators.com>

Get the Admission Form

Download Form 

**MANAGEMENT**  
**3D EDUCATORS**  
**TRAINERS & CONSULTANTS**