



COMPLETE TRAINING ON COMPUTERISED ENGINEERING DESIGN SOLUTIONS

- Solid Works 3D CAD
- Pro - E
- ANSYS
- AutoCAD - 2D & 3D

FEE:
N250,000
OR
N400,000
(with Laptop)

Bank: First Bank
A/C No: 2002925664

Cost of each workshop will provide participants with learning materials, software, laptop, bag, jotter, tea break and lunch.

AUTOCAD 2D & 3D
22ND - 26TH JUNE, 2020.

ANSYS
21ST - 25TH SEPT., 2020.

PRO-E
24TH - 28TH AUGUST, 2020.

SOLID WORKS
13TH - 17TH JULY, 2020.

ANSYS TRAINING

Ansys is a general purpose software used to simulate interactions of all disciplines of physics, structural, vibration, fluid dynamics, heat transfer etc. Ansys can carry out advanced engineering analyses quickly, safely and practically by its variety of contact algorithms.

COURSE OUTLINE

Module 1: ANSYS APDL

- Structural Analysis
- Assigning Materials
- Boundary Conditioning
- Defining Loads
- Solving/Solution
- Exercise

Module 2: ANSYS APDL

- Thermal Analysis
- Assigning Materials
- Boundary Conditioning
- Defining Loads
- Solving/Solution
- Exercise

Module 3: ANSYS WORKBENCH

- Static Structural
- Assigning Materials
- Boundary Conditioning
- Defining Loads
- Solutions
- Exercise

Module 4: FLUENT

- Fluent
- Boundary Conditioning
- Defining loads
- Solutions
- Exercise

Module 5: Explicit Dynamics

- Analysis With Explicit Dynamics
- Boundary Conditioning
- Defining loads
- Solution

Module 6: Thermal Analysis

- Thermal Analysis
- Boundary Conditioning
- Defining loads
- Solution
- Exercise

For registration & information,
Contact
080291233312 or
08057910422
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ENGINEERING DRAWING & DESIGN COURSE (with the use of Autocad)

This workshop reviews basic understanding of engineering drawing procedures and proceeds to the practical hands-on sessions in Computer Aided Design (CAD.) This course is designed to enable professional engineers achieve required level of productivity and efficiency in communicating to construction personnel, facility operators, maintenance personnel, and other technical staff.

COURSE OUTLINE

1. Design & Drawing Fundamentals

- Hand Sketching & Views
- Angles of Projection
- Layout of Engineering Drawings
- Overall Design Process
- Use of Standards in Design
- Tools and Equipment for Design, Drawing & Prints

2. Plant Design Processes

- Process Block Diagram
- Process Description Manual
- Mechanical Designs
- Pipeline & Instrumentation Design
- Welding & Construction Designs

3. AutoCAD 2D:

- Autocad Basics
- Creating 2D Objects
- Creating And 2D Editing Methods
- Additional 2D Editing Methods And Exercises
- Hatching, Dimensioning/Editing
- Project Presentation
- Organising Your Drawings: Layer, Blocks, Template
- Miscellaneous: Computing Distance/Area, Mathematical Calc. In AutoCAD
- Project Review And Printing Of Drawings

4. INTRODUCTION TO AutoCAD 3D

- Introduction, The Concept Of 3D Modelling
- Types Of 3D Modelling
- The User Coordinate System, UCS, Specifying Coordinates
- Solid Modelling - Creating Conventional Solids Shapes