



INDUSTRIAL ENGINEERING

Industrial Engineering diploma

Inventor

CADLearning for Autodesk® Inventor® provides training and tutorials for beginner, intermediate and advanced users that want to gain a better understanding of the functionalities of Autodesk Inventor software. Lessons cover getting started in the application, creating 3D mechanical designs, working with assemblies, simulating products, and more.

Course	Duration
Inventor basic Level	24 hrs
Inventor advanced Level	24 hrs

Outlines:

Inventor advanced Level :

- Inventor interface
- Creating 2D sketches
- Constraining and dimensioning sketches
- Generating 3D parts from sketches
- Part modeling, adding and editing 3D features
- Work Features
- Model geometry and model display manipulation
- Resolving feature failures
- Feature duplication techniques



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- Establishing and working with model relationships
 - Placing and constraining parts in assemblies
 - Creating parts and features in assemblies
- Creating and annotating drawings and views

Inventor advanced Level:

- Advanced Modeling.
 - Advanced Assembly.
 - Applying motion to existing assembly constraints using Drive Constraints.
 - Introduction of the Top-Down Design technique.
 - Creating Positional Representations of an assembly.
 - Using the Design Accelerator.
 - Using pattern, mirror, and copy techniques.
 - Link system parameters and custom parameters to an external spreadsheet
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- Stress analysis

ENGO SOFT



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SolidWorks

Learn how to utilize SolidWorks® mechanical design automation software to build parametric models of parts and assemblies. Participants will learn to draw sketches of solid models, apply geometric constraints and dimensions for profiling modeling, create part, assembly and sub-assembly models, and modify and edit 3D models and drawings.

Course	Duration
solidworks basic Level	20 hrs
solidworks advanced Level	20 hrs

Outline:

Solidworks basic Level

- 1: Introduction - Sketching
- 2 : Part Modeling
- 3 : Revolve & Sweep - Patterning
- 4 : Simulation-Xpress - Shell & Rib - Repair
- 5 : Drawing - Configurations
- 6 : Assembly Modeling

Solidworks advanced Level

- 1 : Advanced Sketching
- 2 : Advanced Features
- 3 : Advanced Features 2
- 4 : Multi-Body Techniques
- 5 : Advanced Assembly
- 6 : Top-Down Assembly