Plant 3D Syllabus

Introduction to AutoCAD plant 3d model & Basic structure

Equipment Modeling

- Equipment Modeling.
- Pump Modeling.
- Nozzle creation and modification.
- Platforms & Ladders.
- Equipment & Nozzle Modeling.

Piping modeling

- Piping modeling.
- Piping Modification.
- Line report extraction.

Isometric

- Isometric extraction
- Error Resolving.

Automatic Drawing Production

- 2D drawing Extraction.

Advanced Course

- EQUIPMENT
- PIPING
- ISOMETRIC
- STRUCTURES
- SUPPORTS
- ORTHOGRAPHIC

Equipment

- Equipment Modeling- As per vendor drawing and equipment layout
- Modeling of Horizontal Vessel
- Modeling of Vertical Vessel
- Modeling of Heat Exchanger
- Modeling of Pumps
- Modeling of Stacked Heat Exchanger
- Creating the standard equipment

Piping

- Pipe routing- As per piping layout and P&ID
- 6 Routing on projector
- Total 10 routings for practice
- How to provide spec break
- How to provide insulation of line
- How to provide field weld.

Isometric

- Isometric Generation- As per pipe routings
- Extracting of Isometric
- Splitting of Isometrics
- Providing flow.
- Export the drawing to AutoCAD.

Structural

- Structures- As per Equipment layout & piping layout
- Beams and columns
- Create beams and columns Extend beams and columns
- Creating Bracings
- Creating Grid
- Generating the reports
- Creating Footing.
- Creating panels and plate
- Creations of floors
- Creation of platforms
- Creation of ladders
- Creation of stairs

Course Duration: 40 days
Qualifications:
ITI, ITC, VHSS, Graduates, Diploma, Engineering Students.

Supports

- Supporting the Equipment, structures, pipes
- Modeling of supports
- Modeling of line guide, rest, limit stop.

Orthographic Module

- Final output of Plant layout
- GA-Drawing creation in 2D
- Creation of sectional views
- Dimensioning, Labeling
- Export the drawing to AutoCAD

Review File

- Creation of review file.