

A COMPREHENSIVE COURSE IN AUTOCAD 2D DRAWING & 3D BASICS



TERRA-GREEN TECHNOLOGIES PVT. LTD

in collaboration with

INDIAN INSTITUTE OF CHEMICAL ENGINEERS

presents

ONLINE START-UP TRAINING PROGRAM (OSTP)

Duration : 2 Months

Mode of Delivery : ONLINE

Target Audience: M.Tech, B.Tech, Diploma students, Professionals

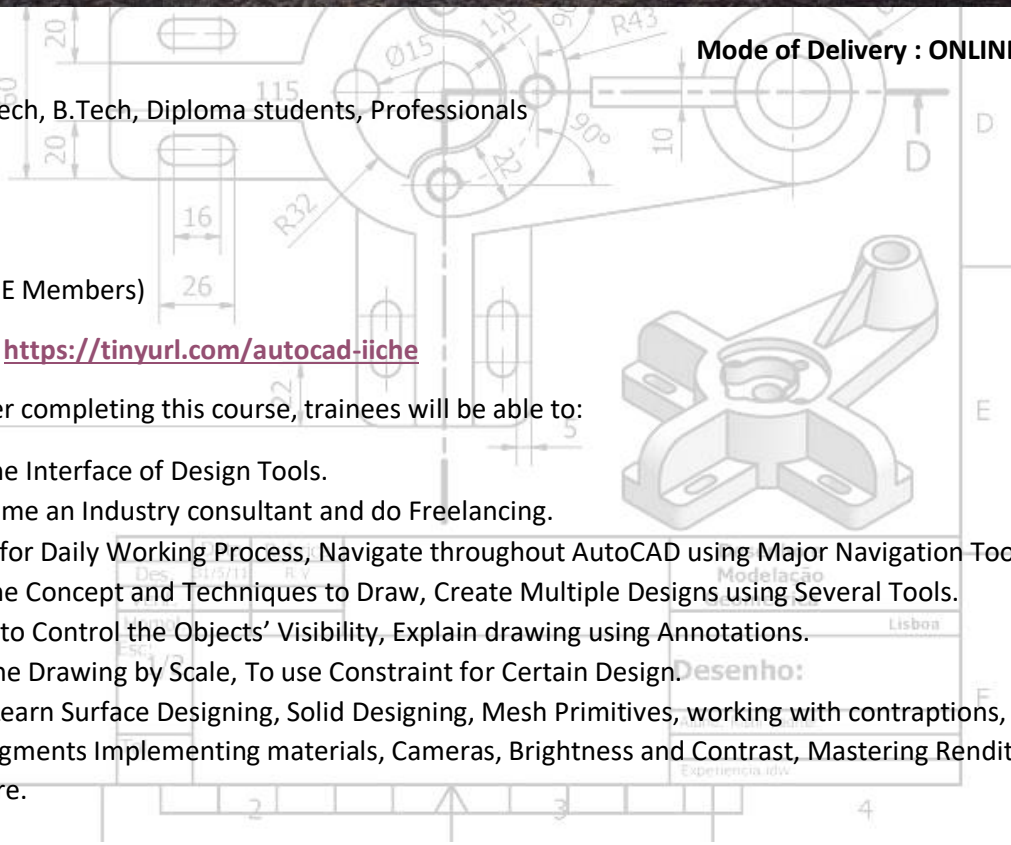
Fee:

1. INR 5000/- (For All)
2. INR 4000/- (For IICChE Members)

Admission Form Link: <https://tinyurl.com/autocad-iiche>

Course Outcome: After completing this course, trainees will be able to:

- Understand the Interface of Design Tools.
- Ready to become an Industry consultant and do Freelancing.
- Use AutoCAD for Daily Working Process, Navigate throughout AutoCAD using Major Navigation Tools.
- Understand the Concept and Techniques to Draw, Create Multiple Designs using Several Tools.
- Create Layers to Control the Objects' Visibility, Explain drawing using Annotations.
- Plot or Print the Drawing by Scale, To use Constraint for Certain Design.
- Trainees will Learn Surface Designing, Solid Designing, Mesh Primitives, working with contraptions, Altering 3D segments Implementing materials, Cameras, Brightness and Contrast, Mastering Renditions and many more.



Session	Topics to be covered in each session of two hours
Session 1 A	<ol style="list-style-type: none"> 1. Introduction to AutoCAD 2. Workspaces & Other important settings: Units, Limits, Model view setup 3. File Management & Password Protection. 4. Display Control: Zoom, Pan, Regen, Redraw, Clean screen, Steering Wheel 5. 2D Co-ordinate systems: Different Point Selection Methods 6. Drawing & Modify tools: Line, Erase 7. Different Modes & Customization: Ortho, Osnap, Snap, Grid, Otrack etc. 8. Object Selection Methods, Multifunctional Grip Editing 9. Application : Some simple geometrical figures.
Session 2 B	<ol style="list-style-type: none"> 1. Object Properties: Color, Linetype, Ltsscale, Lineweight, Properties, Matchprop 2. Drawing Tools: Circle, Arc, Rectangle, Xline, Ray 3. Modify Tools: Move, Oops, Copy, Offset, Mirror 4. Script files 5. Application : Some complex geometrical figures.
Session 3 C	<ol style="list-style-type: none"> 1. Drawing Tools: Ellipse & Elliptical arcs, Donut, Polygon, Pline, Spline, Multiline (Mlstyle, Mledit), Wipeout, Revision cloud 2. Modify Tools: Trim, Extrim, Extend, Rotate, Array (Polar, Rectangular & Path), Align, Scale, Stretch, Lengthen, Chamfer, Fillet 3. Application: Tricky use of the AutoCAD tools in drawing.
Session 4 D	<ol style="list-style-type: none"> 1. Drawing Tools: Point (Style), Divide, Measure etc. 2. Modify Tools: Break, Break at a point, Join, Draw order, Copy from file to file, Blend curves etc. 3. Object Isolation 4. Application: Utilization of the drawing tools.
Session 5 E	<ol style="list-style-type: none"> 1. Annotation Tools: Text, Style, Mtext, Single line text, Scaletext, detext, Arcstext, Table, Table style, Table edit, Symbols, Insert fields (Date, Savetime, Edittime), txt2mtxt 2. Hatching utilities: Hatch, Hatchedit, Gradient, Fill, Fillmode 3. Inquiry commands: Dist, List, Id, Radius, Angle, Area, Volume 4. Application: Drawing techniques to start equipment drawing.
Session 6 F	<ol style="list-style-type: none"> 1. Annotation Tools: Textmask & Textunmask, Wipeout, Tframes, RText (rtedit), Mirrtext 2. Dimensioning : Dimension Style, Linear, Aligned, Radius, Diameter, Center Mark, Angle, Arc length, Continuous, Baseline, Dimension Space, Dimension Break, Inspection, Jogged radius, Ordinate dimensions, Dim edit, Dimension Associative, Reassociate etc. 3. Object grouping 4. Application: Project 1 (Drawing of an equipment)
Session 7 G	<ol style="list-style-type: none"> 1. Leader: Qleader, Mleader, Multi leader style, Add leader, Align Leader lines, Collect Leader 2. Layer Management: Adding & Removing Layers, Layer Status, New Property Filter, New Group Filter, Layer Status Manager, Plot Control, Copytolayer, Assigning layer to objects 3. Block: Creation, Block Editor, Insert Block etc. 4. Dynamic Block: Creation & Editing 5. Application: Completion of Project 1

<p>Session 8</p>	<ol style="list-style-type: none"> 1. Design Centre 2. Tool Palette 3. External references: Xref, Xbind, Refedit etc. 4. Hyperlink, Super hatch 5. Viewports configuration : Creation & use, Layout, Mview 6. Plot, Export, Import 7. Action Recorder 8. Application: Project 2
<p>Session 9</p> <p>B</p>	<ol style="list-style-type: none"> 1. Parametric Modeling: Geometric Constraint, Dimensional Constraint 2. Options 3. Insert OLE objects 4. Customize User Interface (CUI) 6. Application: Completion of Project 2
<p>Session 10</p>	<ol style="list-style-type: none"> 1. Introduction to 3D Modelling 2. C-ordinate system in 3D 3. 3D Basics : Creation of 3D solids, Extrude, Subtract, Union, Intersect 4. Application: Drawing of some 3D figures
<p>Session 11</p> <p>C</p>	<ol style="list-style-type: none"> 1. Solid Modeling: Revolve, Loft, Sweep, Presspull, Slice 2. Introduction to Surface Modeling 3. Application: Drawing of some 3D figures
<p>Session 12</p>	<ul style="list-style-type: none"> • Evaluation (Students have to draw a given diagram & submit within 2 hrs.)

