AutoCAD 2D Basics for the Construction Industry

Prerequisite: Zero knowledge of AutoCAD 2D

Course Description
In many organizations, a lack of 2D knowledge can seriously hamper their business growth. This is very true, especially in the Construction Industry where sometimes minor changes or edits to a drawing can take days to complete, as you have to wait for the drafting department or people skilled with AutoCAD to come back with the changes. This course will help participants be more productive at the workplace, and workflows can turn around much faster.

Target Audience: Those needing strong knowledge of AutoCAD and starting with Zero or minimal knowledge of AutoCAD – Draughtsman, Assistant Engineers and Engineers in the Construction industry, as well as the fields of Mechanical, Civil, Road, Transport, Oil and Gas, Manufacturing, Industrial, Chemical and Petroleum. Product Engineers. Architects and Interior Designers.

Learning Objectives:
Upon Completion of this course, students will be able draw, edit, modify, add to previously drawn 2D drawings, and create completely new 2D drawings. Examples of 2D drawings will be office or building layouts and different views of a mechanical object (side view, plan view, etc)

Methodology
70% practical hands-on sessions and 30% theory. Students will have mastered the subject matter with confidence, and be able to independently pursue subject matter by the end of class.

Trainer's Details

MOHD SAZLI BIN MOHD DAUD

Working Experience

1) Aziehajaya Enterprise - Officer.(2006-2007)
2) Niro Ceramic Group – Interior Designer (Project Team Interior Designer) – 18/02/2013 – 16/03/2015
3) Johan Ceramic Berhad – Executive Designer (Project Team Interior Designer) – 17/03/2015 – 14/08/2015
4) Radius World – Exhibition & Event Designer – 16/11/2015 – 09/09/2016
5) Crown Lifestyle Marketing SDN.BHD – Interior Designer (Handle Showroom, Interior Design Project, Exhibition and R & D For New Furniture Product - 13/09/2016 – 13/05/2017

Training Experience

> CAD Design Centre - 2020-2022
> Knowledge Tree PLT - 2022-2023
> PETRONAS Penapisan Terengganu Sdn.Bhd
> Sunway Lagoon Sdn Bhd
> Johor Petroleum Development Corporation Berhad
> Kurita Water Malaysia Sdn.Bhd.
> Barium Selat Sdn Bhd
> Eastern Soldar Engineering & Construction Sdn Bhd
> Carlsberg Brewery Malaysia Berhad

Skills

> Research method , Design Process and product development
> Microsoft Office: Word, Power Point, Excel
> 3D Software: 3D Studio Max V-ray Rendering and AutoCAD 2017
> 2D Software: Adobe Photoshop, Adobe Illustrator & Coral Draw (Basic).

DAY 1

Time	Subjects

9.00 -10.30 am	1. Introduction
	2. Taking the AutoCAD tour
	   - Zoom & Pan in the Drawing
	   - Hands On Tour

10.30 -12.00 pm	3. Creating Drawing(Construction)
	   - Input Data
	   - Create Basic Objects
	   - Use Object Snaps
	   - Use Polar Tracking & Polar Snaps
	   - Use Object Snap Tracking
	   - Use Architectural Units

12.00 -1.00 pm	Lunch

1.00 - 3.00 pm	4. Drawing Organization & Inquiry Commands
	   - Work with Layers
	   - Change Object Properties
	   - Use Quick Properties

3.00 -5.00 pm	Manipulate Object properties in the Construction field
	   - Use Line types
	   - Obtain geometrics information
	   - Measure objects

Day 2

Time	Subject
9.00 —10.00 pm	**5. Altering Objects in the construction world** - Trim & Extend Objects - Create Parallel & Offset Geometry - Join Objects - Break Objects - Create Filleted Corner - Create a Chamfered Corner - Stretch Objects
10.00-12.00 pm	Project - Construction Floor Layout Draw a complete floor plan from zero, with all the knowledge thought before - including wall, dimensions, layers, text
12.00 — 1.00 pm	Lunch
1.00 —2.00 pm	**6. Dimensioning for construction** - Create Dimension - Modify Dimension Style - Use Multileader - Edit Dimension
2.00 —3.30 pm	**7. Annotating Drawing for construction** - Create Multiline Text - Create Single Line Text - Edit Text - Use Text Style
3.30 —5.00 pm	**8. Hatching Objectsin the construction** - Create Hatches - Create Fills and Gradient - Edit Hatch Patterns & Fills 9.Printing - construction drawings