



Seed
TRAINING GROUP

AUTOCAD COURSE

ON-CAMPUS

ABOUT THE COURSE

The AutoCAD Course is formulated into 3 levels to address learners with different competency on using AutoCAD and to provide and/or improve their technical knowledge and drafting skills. The courses aim to simulate the workplace environment where the trainer will play the role of a senior professional to hand down the practical experience to the juniors and mentor them to prepare for potential jobs in engineering fields and ease the painful learning curve at an early stage.

Each level equips students with practical drafting and design skills likely required in those positions as well as foundational understanding about drafting processes to allow further development at later stages of their career on their own.

UNITS

There are 3 levels designed to fulfil progressive learning outcomes step by step.



Get to know AutoCAD as a drafting software. Quizzes and exercises in class will be implemented to assist the learning and progression.

BEGINNER LEVEL – 5 sessions (4 hours)

Session 1 - Introduction

Introduction to AutoCAD

User interface

Initial Drawing setting up

Command or Ribbon?

Dynamic Input and Search/ Help

Navigate through your working space

Session 2 - Basic Drafting Commands

Point/ Node commands

Line/ Ray/ Construction Line/ Multiline/ Polyline (and Spline) commands

Circle/ Arc/ Ellipse/ Donut commands

Rectangle/ Polygon commands

Hatch/ Gradient commands

Session 3 - Drafting Setting

Grid settings

Snap settings

Tracking settings

Session 4 - Basic Modifying Commands

Copy/ Mirror/ Offset/ Array commands

Move/ Rotate/ Scale/ Stretch/ Lengthen commands

Trim/ Extend/ Break/ Join/ Chamfer/ Fillet commands

Divide and Measure commands

Explode command

Session 3 - Basic Annotation

Dtext and Mtext

Dimensioning 101

UNITS

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*2 sessions including
practice projects*

*Setup and organize
AutoCAD drawings
systematically and get
familiar with industry
drawing standards,
templates and databases.
The mock project will be
employed for practising.*

INTERMEDIATE LEVEL – 6 sessions (12 hours)

Session 1 – Drawing Setup

Layers and their properties

Point style, Text style, Dimension style, Table style, Leader style

Drawing standards, templates and database (library)

Session 2 – Basic Drafting Commands

Generating and working with layers

Show – Hide – Isolate

Lock/ Unlock, Freeze/ Thaw Layers

Fade/ Transparency feature

Creating and inserting blocks, Insert external objects

Introduction to Dynamic blocks, and External Reference

Session 3 – Effective Drafting Operation

Select smartly, Mass editing

Modifying by alternating Object's Properties

Scale-it-right, Matchdrop

Session 4 – Basic Modifying Commands

Leaders, Notes and Tables, Built-in symbols

Markup with Rev cloud and Wipeout

Block with attributes and Fields

Session 5 – Your First Hands-on Experience Drafting a Plan Scratch

Session 6 – Plotting and Publishing

Model and Paper space, Layout and Viewport

Arrange your blueprints with Title block, Legend and Notes

Dimensioning and assigning texts to scale

Printing to standard paper sizes

Distributing your CAD file(s) with eTransmit

UNITS

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● ADVANCED LEVEL – 1 session (4 hours)



Learn the most advanced techniques in AutoCAD apart from drafting, and explore communication interface between AutoCAD and other computing tools.

Session 1

Mining the valuable resource of Object's properties and parameters

Instantaneous calculation in AutoCAD

Rapid editing by Grip

Tempo and instantaneous Collaboration

The art of making selection set

Advanced hatch features

Advanced plotting and publishing

AutoCAD and Excel

Advanced Xref-ing

Advanced features of blocks, Dynamic Blocks

Parametric features

Annotative property

Other applications of AutoCAD apart from drafting

Customizing your commands shortcut

Introduction to Autolisp

Introduction to Express Tools

Introduction to Autodesk's Design Center

Tips on working multi-disciplinarily

Tips on working with CAD files of high complexity

Optional: Introduction to AutoCAD 3D / First impression of BIM Revit

TRAINER'S PROFILE

- Professional Civil Engineer with over 5 years in the construction industry
- A registered AutoCAD Certified Professional
- An experienced Estimator in residential, commercial and industrial projects
- Worked on high profile projects with a value up to 40 million USD
- Experienced working with Tier 1 and Tier 2 civil constructors in Australia

UPON COMPLETION

- Upon successful completion of all the required learning of this course, students will receive a Certificate of Completion.
- Perform confidently at the workplace or job search.
- Students who complete any level of the course are eligible for the Internship Placement Service*.

PRICE

Beginner Level	\$200
Intermediate Level	\$1,000
Advanced Level	\$400

All prices include GST.

DURATION

Beginner Level – 4 hours
Intermediate Level – 12 hours
Advanced Level – 4 hours

DELIVERY MODE

Face-to-face

ENTRY REQUIREMENT

Basic computer skills are essential.
No prior knowledge of AutoCAD is required.

EQUIPMENT NEEDED

Students are required to bring their own laptops to attend the training.

**Service fees are applied to the Internship Placement Service, please contact us for detailed terms and conditions.*