



# AUTOCAD ESSENTIALS: BUILDING YOUR 2D & 3D CORE SKILLS (AUTOCAD ESSENTIALS)

## For Whom

This course is designed for Entry-Level Learners (Junior Draftsmen, Technical Assistants, Students) who need to create, edit, or technically review digital drawings and 3D models.

## Entry Requirement

Basic computer literacy (file management/Windows OS). Understanding of basic geometry is helpful. Proficiency in English (Listening, Speaking, Reading, Writing).

## Course Overview

A comprehensive 24-hour fast-track program covering the essentials of Computer-Aided Design. Learners will progress from basic UI navigation to creating complex 2D technical drawings and introductory 3D models, ensuring they can produce industry-standard documentation.

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## Course Content

- Topic 1: Getting Started: UI, Workspace Setup, and Navigation.
- Topic 2: Drawing Fundamentals: Lines, Polylines, Circles, and Precise Input.
- Topic 3: Editing Expertise: Modify tools (Offset, Trim, Mirror, Array).
- Topic 4: Drawing Organization: Advanced Layer management and Block creation.
- Topic 5: Annotation: Text styles, Tables, and Multi-leader callouts.
- Topic 6: Dimensioning & Constraints: Linear, Radial, and Angular dimensions.
- Topic 7: 3D Foundations: 3D Coordinate systems, Extruding, and Revolving.
- Topic 8: Output & Publishing: Layout viewports, Scaling, and PDF Plotting.

## Course Duration

Total Delivery Hours: 24 Hours

- Training Hours: 22 Hours (Classroom Theory & Practical)
- Assessment Hours: 2 Hours

## Medium of Instruction

English

## Teaching Methodology

- Classroom-based training with live software demonstrations, step-by-step practical exercises, and project-based learning.

## Learning Environment

- Our ergonomically designed classrooms are fully air-conditioned, equipped with whiteboards; audio/video equipment and free wi-fi. Air-conditioned computer labs equipped with high-performance workstations, AutoCAD 2026 software, and projector-aided instruction.

## Class Size

Recommended Class Size - Classroom: 5

- Min - 5 • Max - 5

## Key person incharge

Mr. Monish V (General Manager - Corporate Support Division)

## Facilitator/Learner Ratio:

01:05

## Course Attendance:

100%

## Funding & Claims

- NA

## Course Fee Inclusive of GST

S\$500

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## Assessment Advice

**Practical Drafting Assessment:** Students must complete a 2D technical drawing and 3D model on their workstation based on a project brief. Key tasks include setup, precise geometry creation, layer management, and scaled PDF plotting.

Duration: 2 Hours.

**Individual Project Assignment:** An independent technical project to be submitted via the EA Portal before the final assessment.

Duration: Student's own time.

Passing Criteria:

Overall Pass Mark: 50% combined score.

Weightage: Practical Assessment (35/100) and Individual Project (65/100).

## Certification

- "Based on the successful completion of the course and assessment, a certificate of achievement endorsed by Eversafe Academy Ltd., will be awarded to the trainee. E-cert available"

## Course Venue

No. 2, Kampong Kapur Road, Little India, Near Jalan Besar, MRT Station Exit B, Singapore - 208674

No. 3, Soon Lee Street, #04-14/16 & 17, Pioneer Junction, Singapore - 627606.

No. 2, Joo Koon Road, Singapore - 628966.

No. 2, Wan Lee Road, Singapore - 627934.

## Renewal Points for professionals

SDU Points : NA

## Registration Venue

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+65 6297 8417

training@eversafe.com.sg

+65 9381 3608

www.eversafe.edu.sg

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