AutoCAD for Architectural Design Training Course

Professional Development Training Course Outline

Category	Architectural Engineering	**Duration**	10 Days
Base Fee	$3,000 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

AutoCAD for Architectural Design Training Course is designed to equip learners with cutting-edge drafting, modeling, and documentation skills essential for modern architecture and construction workflows. This course emphasizes precision drafting, 2D and 3D architectural modeling, BIM-ready workflows, construction documentation, and digital design optimization. Learners will gain hands-on experience in creating professional architectural drawings including floor plans, elevations, sections, and detailed layouts using advanced AutoCAD tools aligned with AEC industry standards, smart annotation systems, parametric blocks, and productivity automation techniques.

With the rapid evolution of digital construction and smart city planning, AutoCAD remains a foundational tool for architects, engineers, and designers. This training integrates real-world case studies, project-based learning, sustainable design concepts, CAD standards compliance, and collaborative workflows to ensure learners are job-ready. By mastering layer management, dynamic blocks, rendering basics, and layout publishing, participants will be able to deliver high-quality architectural designs efficiently while meeting global industry demands.

Programme Curriculum

AutoCAD for Architectural Design Training Course

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Course Duration

10 days

Course Objectives

1. Master 2D drafting and precision drawing techniques for architectural plans
2. Develop skills in 3D architectural modeling and visualization
3. Understand BIM integration concepts and CAD interoperability
4. Learn construction documentation and detailing standards
5. Apply layer management and annotation scaling techniques
6. Create parametric and dynamic blocks for design automation
7. Enhance productivity using AutoCAD shortcuts and workflow optimization
8. Implement real-world architectural project workflows
9. Understand sustainable design drafting practices
10. Develop layout plotting and sheet set management skills
11. Gain expertise in architectural rendering basics
12. Collaborate using cloud-based CAD tools and file sharing
13. Build a professional architecture design portfolio

Target Audience

1. Architecture students and graduates
2. Civil engineers and construction professionals
3. Interior designers and space planners
4. Draftsmen and CAD technicians
5. Project managers in AEC industry
6. Freelance designers and consultants
7. Urban planners and landscape designers
8. Professionals transitioning into architectural design

Course Modules

Module 1: Introduction to AutoCAD

- Interface navigation and workspace setup
- Coordinate systems and drawing basics
- File management and templates
- Units and scales setup
- **Case Study:** Setting up a residential project workspace

Module 2: Basic Drawing Tools

- Line, polyline, circle, arc tools
- Object snaps and tracking
- Drawing accuracy techniques
- Modify commands basics
- **Case Study:** Creating a simple floor layout

Module 3: Advanced Drawing Techniques

- Complex shapes and geometry
- Hatching and gradients
- Boundaries and regions
- Advanced editing tools
- **Case Study:** Drafting a detailed room layout

Module 4: Layer Management

- Layer creation and organization
- Layer properties and filters
- Layer states management
- Best practices for large projects
- **Case Study:** Organizing multi-level building drawings

Module 5: Annotation and Dimensions

- Text styles and formatting
- Dimensioning standards
- Multileaders and callouts
- Annotation scaling
- **Case Study:** Annotating a construction drawing

Module 6: Blocks and Dynamic Blocks

- Creating reusable blocks
- Attributes and data extraction
- Dynamic block parameters
- Libraries and standards
- **Case Study:** Designing door/window blocks

Module 7: 2D Architectural Drafting

- Floor plans and layouts
- Elevations and sections
- Architectural symbols
- Drafting standards
- **Case Study:** Complete house floor plan

Module 8: 3D Modeling Basics

- 3D workspace and tools
- Solid and surface modeling
- Extrude, revolve, sweep
- View controls and navigation

- **Case Study:** 3D model of a building structure

Module 9: Advanced 3D Modeling

- Complex modeling techniques
- Materials and textures
- Lighting basics
- Rendering setup
- **Case Study:** Exterior building visualization

Module 10: Layouts and Plotting

- Paper space vs model space
- Viewports and scaling
- Plot styles and printing
- Sheet sets
- **Case Study:** Preparing construction sheets

Module 11: CAD Standards and Documentation

- Industry standards (ISO, AIA)
- Title blocks and documentation
- File organization
- Quality control
- **Case Study:** Professional drawing submission

Module 12: Productivity Tools

- Shortcuts and customization
- Tool palettes
- Scripts and automation
- External references (Xrefs)
- **Case Study:** Speeding up large project drafting

Module 13: Collaboration and Cloud Integration

- File sharing and collaboration
- Cloud storage integration
- Version control
- Team workflows
- **Case Study:** Multi-user project coordination

Module 14: Sustainable Design Drafting

- Green building concepts
- Energy-efficient layouts
- Smart material planning
- Compliance standards
- **Case Study:** Eco-friendly building design

Module 15: Final Project and Portfolio Development

- End-to-end architectural project

- Presentation techniques
- Portfolio creation
- Industry readiness
- **Case Study:** Complete residential/commercial project

Training Methodology

This course employs a participatory and hands-on approach to ensure practical learning, including:

- Interactive lectures and presentations.
- Group discussions and brainstorming sessions.
- Hands-on exercises using real-world datasets.
- Role-playing and scenario-based simulations.
- Analysis of case studies to bridge theory and practice.
- Peer-to-peer learning and networking.
- Expert-led Q&A sessions.
- Continuous feedback and personalized guidance.

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org or call *+254769199797*

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price

23 Nov 2026	04 Dec 2026	Online	$2,000
23 Nov 2026	04 Dec 2026	Physical	$3,000
23 Nov 2026	04 Dec 2026	Physical	$6,000
23 Nov 2026	04 Dec 2026	Physical	$6,000
23 Nov 2026	04 Dec 2026	Physical	$12,000
23 Nov 2026	04 Dec 2026	Physical	$9,000
23 Nov 2026	04 Dec 2026	Physical	$12,000
23 Nov 2026	04 Dec 2026	Physical	$12,000

Ready to enroll or request a customized program? Book online or contact us:

Register Online Now

Email: info@fineskilltrainingcenter.com | Website: www.fineskilltrainingcenter.com