AUTODESK/AUTOCAD TRAINING

Autodesk Cad

Master 2D and 3D design with Autodesk CAD. Learn to create precise technical drawings for engineering and architectural projects.

DURATION
Flexible

LEVEL
Intermediate

FORMAT
Instructor-Led

- Globally Recognized Certification
- Expert-Led Hands-On Training
- Flexible Scheduling

Computer Pride | 1st Floor, ICEA Building, Kenyatta Avenue, Nairobi | www.computer-pride.co.ke

COURSE OVERVIEW

This intermediate Autodesk CAD course is meticulously designed for professionals who possess a foundational understanding of AutoCAD and are eager to elevate their skills to tackle more complex and sophisticated design challenges. It provides an immersive deep dive into advanced 2D drafting techniques, comprehensive 3D modeling, and sophisticated project management functionalities inherent in the AutoCAD software. Participants will gain proficiency in creating intricate designs with unparalleled precision, manipulating complex 3D objects, and generating professional-grade technical drawings and visualizations that adhere to industry standards.

Level	Intermediate
Vendor	Autodesk/AutoCAD

COURSE CURRICULUM

01 Module 1: Advanced 2D Drafting and Annotation Techniques

- Mastering Complex Polyline and Spline Creations
- Advanced Hatching, Gradient Fills, and Boundary Definitions
- Working with Dynamic Blocks, Attributes, and Field Integration
- Annotation Scaling, Multileaders, and Dimension Style Management
- Effective Use of Sheet Set Manager for Project Organization and Publishing

02 Module 2: Introduction to 3D Modeling Fundamentals

- Understanding 3D Coordinate Systems (UCS) and Viewports
- Creating 3D Primitives: Boxes, Cylinders, Spheres, Cones, Pyramids
- Solid Modeling Techniques: Extrude, Revolve, Sweep, and Loft Commands
- Applying Boolean Operations: Union, Subtract, Intersect
- Navigating and Visualizing in 3D Space (Orbit, Pan, Zoom 3D)

03 Module 3: Advanced 3D Modeling and Visualization

- Editing 3D Solids: Fillets, Chamfers, Slices, Sections
- Working with Surface Modeling and Mesh Objects
- Generating 2D Views from 3D Models (Base, Projected, Section Views)
- Introduction to Basic Rendering, Materials, and Lighting
- Creating Photorealistic Visualizations (Basic Concepts)

04 Module 4: Data Management, Collaboration, and Output

- Efficiently Managing External References (Xrefs) and Underlays
- Data Links, Tables, and Data Extraction
- Plotting and Publishing Multipage Drawings and DWF Files
- Understanding Plot Styles (CTB/STB) and Page Setups
- Using eTransmit for Project Sharing and Archiving

05 Module 5: Customization and Automation Basics

- Creating and Managing Custom Tool Palettes
- Introduction to User Interface Customization (CUI Editor)
- Utilizing the Action Recorder for Automating Repetitive Tasks
- Basic Scripting and Macros (Introduction to AutoLISP)
- Templates and Standards for Project Consistency

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

> **Architectural Technologist (Specializing in Advanced CAD Design)**

> **Mechanical Design Engineer (Utilizing Advanced CAD for Prototyping and Assembly)**

> **Civil Engineering CAD Specialist (Focusing on Infrastructure and Site Planning)**

FREQUENTLY ASKED QUESTIONS

Q: What prerequisites are necessary before enrolling in this intermediate Autodesk CAD course?

This intermediate Autodesk CAD course assumes participants possess a solid foundational understanding of AutoCAD. You should be proficient in basic 2D drawing commands (e.g., Line, Circle, Arc), object modification (e.g., Move, Copy, Trim, Extend), layer management, and fundamental annotation techniques. Prior completion of a beginner-level AutoCAD course or equivalent professional experience using the software is highly recommended to maximize your learning experience.

Q: Will this course provide me with practical skills to work on complex 3D modeling projects for industries like architecture or mechanical engineering?

Yes, a significant portion of this course is dedicated to equipping you with robust 3D modeling capabilities. You will learn to create and manipulate a wide array of 3D objects, including solids, surfaces, and meshes, utilizing advanced commands such as extrude, revolve, sweep, and loft. While it provides a strong practical foundation for both architectural and mechanical 3D design, specific advanced industry-specific applications might require further specialized training or dedicated advanced courses.

Q: How does completing this intermediate Autodesk CAD course enhance my career prospects and differentiate me from someone with only basic CAD skills?

Completing this intermediate course significantly elevates your technical proficiency beyond basic drafting, enabling you to confidently tackle more complex and sophisticated design projects. You will gain expertise in 3D modeling, advanced data management, collaboration workflows, and basic automation, skills that are highly valued and sought after by employers. This enhanced and versatile skill set makes you a more capable and efficient designer, opening doors to roles that demand detailed project execution, lead design capabilities, and potentially better compensation within the Architecture, Engineering, Construction (AEC) and manufacturing sectors.

ABOUT COMPUTER PRIDE

computerpride

East Africa's Premier IT Training Center

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

15+	10,000+	50+
Years of Excellence	Professionals Trained	Vendor Certifications

READY TO ENROL?

Take the next step in your technology career.

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