



QUILLANCE INFOTECH PVT LTD.

AutoCAD Civil

The Quillance AutoCAD Civil Program is a complete beginner-to-advanced training program designed to help learners master civil drafting, infrastructure planning, construction drawings, surveying concepts, road and building layouts, structural drafting, and modern civil engineering workflows used in construction and infrastructure industries worldwide.



Program Overview

What You Will Learn

- Understand civil engineering drawing and drafting concepts
- Learn 2D civil drafting and infrastructure layout techniques
- Create building plans, road layouts, and site drawings
- Understand surveying, estimation, and structural drafting basics
- Work with construction documentation and CAD standards
- Build real-world civil engineering and infrastructure projects

Career Opportunities

After completing this program, learners can apply for roles such as:

- AutoCAD Civil Designer
- Civil CAD Draftsman
- Site Planning Associate
- Infrastructure Design Technician
- Survey & Layout Technician
- Civil Engineering Intern

Live Projects You'll Build

- **Project 1 – Residential Building Plan Drafting**

Create architectural and civil layouts for residential structures.

- **Project 2 – Site Layout & Plot Planning**

Develop site planning and land layout drawings.

- **Project 3 – Road & Drainage Layout Design**

Prepare road alignment and drainage system drawings.

- **Project 4 – Structural Drafting Project**

Create RCC and structural drafting layouts for buildings.

- **Project 5 – Smart Infrastructure Planning Design**

Develop infrastructure layouts using modern planning workflows.

- **Project 6 – Complete Civil Construction Design Project**

Work on end-to-end construction drafting, planning, and documentation systems.

MODULE 1

Civil Engineering & AutoCAD Fundamentals

TOPICS COVERED:

- Introduction to Civil Engineering & CAD
- AutoCAD Interface & Navigation
- Drawing Tools & Editing Commands
- Coordinate Systems & Precision Drafting
- Layers, Annotation & Dimensioning
- Engineering Drawing Standards & Basics

SKILLS GAINED:

- Civil Engineering Fundamentals
- AutoCAD Basics
- Drafting Workflow Understanding
- Technical Drawing Skills

PRACTICAL LEARNING:

- Create basic engineering drawings
- Understand drafting standards
- Work with CAD drawing tools
- Practice annotations and dimensioning

MODULE 2

Architectural & Civil Drafting

TOPICS COVERED:

- Architectural Drafting Techniques
- Floor Plans, Elevations & Sections
- Site Layout & Plot Planning
- Dimensioning & Construction Documentation
- Building By-Laws & Drafting Standards
- Plotting, Printing & CAD Templates

SKILLS GAINED:

- Architectural Drafting Skills
- Civil Design Documentation
- CAD Workflow Understanding
- Construction Layout Knowledge

PRACTICAL LEARNING:

- Draft residential and commercial layouts
- Prepare construction drawings
- Understand design documentation workflows
- Work with plotting and layout systems

MODULE 3

Surveying & Infrastructure Design

TOPICS COVERED:

- Basics of Surveying & Levelling
- Contour Mapping & Topographic Concepts
- Road Alignment & Highway Drafting
- Drainage & Utility Layout Planning
- Land Development & Site Planning
- Infrastructure Drawing Documentation

SKILLS GAINED:

- Surveying Knowledge
- Infrastructure Drafting Skills
- Site Planning Understanding
- Civil Layout Design Expertise

PRACTICAL LEARNING:

- Analyze land and survey layouts
- Create infrastructure design drawings
- Understand road and drainage systems
- Practice site development workflows

Structural Drafting & Construction Planning

TOPICS COVERED:

- Structural Drawing Fundamentals
- RCC Detailing & Reinforcement Basics
- Steel Structure Drafting Concepts
- Construction Planning & Scheduling
- Quantity Estimation & Costing Basics
- Site Coordination & Project Documentation

PRACTICAL LEARNING:

- Prepare structural layouts and details
- Understand construction planning workflows
- Explore estimation and costing concepts
- Create project documentation systems

PRACTICAL LEARNING:

- Structural Drafting Skills
- Construction Planning Knowledge
- Estimation Workflow Understanding
- Project Documentation Skills

Module 5

Advanced Civil Design & Smart Infrastructure

TOPICS COVERED:

- Advanced Civil Drafting Concepts
- Smart City & Infrastructure Planning
- Building Information Modeling (BIM) Basics
- Sustainable Construction Concepts
- Infrastructure Project Management
- Modern Construction Technology Integration

PRACTICAL LEARNING:

- Explore smart infrastructure projects
- Analyze sustainable construction systems
- Understand BIM and digital workflows
- Work on advanced civil planning concepts

ADVANCED CONCEPTS INCLUDED:

- Smart Infrastructure Planning
- BIM Workflow Understanding
- Sustainable Design Concepts
- Green Building Awareness
- Advanced CAD Workflow Optimization
- Modern Construction Technologies

SKILLS GAINED:

- Advanced Civil CAD Skills
- Smart Infrastructure Understanding
- Sustainable Construction Knowledge
- Modern Civil Engineering Workflow Expertise

Module 6

Live Civil Project & Team Collaboration

TOPICS COVERED:

- Civil Project Planning Workflow
- Site Layout & Design Coordination
- Infrastructure Design & Documentation
- Construction Reporting & Monitoring
- Team Collaboration & Technical Review
- Final Civil Project Presentation

SKILLS GAINED:

- Real-World Civil Engineering Experience
- Team Collaboration Skills
- Technical Documentation Skills
- End-to-End Civil Workflow Understanding

PRACTICAL LEARNING:

- Work on civil engineering case studies
- Develop planning and drafting workflows
- Collaborate in infrastructure project teams
- Present civil solutions professionally

Module 7

Placement & Career Preparation

TOPICS COVERED:

- Resume Building & ATS Optimization
- LinkedIn & Professional Branding
- AutoCAD Civil Interview Preparation
- CAD Portfolio Development
- Mock Interviews & HR Preparation
- Career Guidance & Industry Exposure

CAREER SUPPORT INCLUDES:

- Resume & LinkedIn Reviews
- Mock Technical Interviews
- Internship & Placement Assistance
- Civil CAD Portfolio Guidance
- Career Mentorship Sessions
- Professional Communication Training

SKILLS GAINED:

Students will be prepared for internships, civil drafting roles, infrastructure planning opportunities, and construction industry careers.



**QUILLANCE
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Thank You!!



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