



**QUILLANCE
INFOTECH PVT LTD.**

Construction Planning & Designing

The Quillance Construction Planning & Designing Program is a complete beginner-to-advanced training program designed to help learners master construction planning, architectural designing, project management, structural concepts, estimation, site management, and modern construction workflows used in infrastructure and real estate industries worldwide.



Program Overview

What You Will Learn

- Understand construction planning and building design concepts
- Learn architectural drafting and structural fundamentals
- Study project estimation, budgeting, and scheduling techniques
- Understand site management and construction workflows
- Work with modern planning, designing, and project management tools
- Build real-world construction and infrastructure projects

Career Opportunities

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

- Construction Planning Engineer
- Site Planning Associate
- Building Design Technician
- Project Management Associate
- Quantity Surveyor Assistant
- Construction Design Intern

Live Projects You'll Build

- **Project 1 – Residential Building Planning**

Create planning layouts and design concepts for residential structures.

- **Project 2 – Construction Site Layout Design**

Develop site planning and workflow management layouts.

- **Project 3 – Commercial Building Estimation Project**

Prepare project cost estimation and budgeting workflows.

- **Project 4 – Structural Design & Drafting Project**

Develop structural layouts and engineering drawing documentation.

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

Build integrated planning workflows for modern infrastructure projects.

- **Project 6 – Complete Construction Management Project**

Work on end-to-end construction planning, scheduling, designing, and reporting workflows.

MODULE 1

Cybersecurity & Networking Fundamentals

TOPICS COVERED:

- Introduction to Construction Industry
- Basics of Building Planning & Design
- Construction Materials & Their Applications
- Architectural Drawing Fundamentals
- Introduction to Structural Concepts
- Construction Safety & Industry Standards

SKILLS GAINED:

- Construction Fundamentals
- Building Design Understanding
- Architectural Drawing Basics
- Industry Workflow Awareness

PRACTICAL LEARNING:

- Understand construction workflows
- Analyze building design principles
- Explore construction materials and standards
- Learn architectural drafting basics

MODULE 2

Architectural Drafting & Design Planning

TOPICS COVERED:

- Architectural Drawing Techniques
- Floor Plans, Elevations & Sections
- Space Planning & Interior Layout Concepts
- CAD Tools & Drafting Basics
- Dimensioning & Construction Documentation
- Design Standards & Building Regulations

SKILLS GAINED:

- Architectural Drafting Skills
- Building Planning Knowledge
- CAD Workflow Understanding
- Design Documentation Skill

PRACTICAL LEARNING:

- Create building plans and layouts
- Prepare architectural drawings
- Understand design documentation standards
- Work with drafting and planning tools

MODULE 3

Construction Estimation & Project Scheduling

TOPICS COVERED:

- Quantity Estimation Fundamentals
- Construction Costing & Budgeting
- Project Scheduling Techniques
- Resource Planning & Allocation
- Bar Charts & CPM/PERT Concepts
- Construction Documentation & Reporting

SKILLS GAINED:

- Estimation & Budgeting Skills
- Scheduling Workflow Understanding
- Resource Management Knowledge
- Construction Reporting Skills

PRACTICAL LEARNING:

- Prepare project estimates and budgets
- Develop project schedules and timelines
- Analyze resource allocation workflows
- Understand reporting and documentation systems

Module 4

Structural Concepts & Site Management

TOPICS COVERED:

- Structural Design Fundamentals
- Load & Stress Concepts
- RCC & Steel Structure Basics
- Site Supervision & Management
- Quality Control & Inspection
- Construction Safety & Risk Management

PRACTICAL LEARNING:

- Understand structural systems
- Analyze construction site workflows
- Monitor quality and safety practices
- Explore project supervision techniques

PRACTICAL LEARNING:

- Structural Engineering Awareness
- Site Management Skills
- Construction Safety Understanding
- Quality Control Knowledge

Advanced Construction Planning & Smart Infrastructure

TOPICS COVERED:

- Advanced Construction Planning Concepts
- Smart City & Infrastructure Development
- Building Information Modeling (BIM) Basics
- Sustainable Construction Practices
- Construction Automation & Technology
- Infrastructure Project Management

PRACTICAL LEARNING:

- Explore smart infrastructure workflows
- Understand sustainable construction systems
- Work with BIM and planning concepts
- Analyze modern construction technologies

ADVANCED CONCEPTS INCLUDED:

- Smart Infrastructure Planning
- Sustainable Building Design
- BIM Workflow Understanding
- Construction Technology Integration
- Green Construction Concepts
- Advanced Project Coordination

PRACTICAL LEARNING:

- Advanced Planning Knowledge
- Smart Infrastructure Understanding
- Sustainable Construction Awareness
- Modern Construction Technology Skills

Live Construction Project & Team Collaboration

TOPICS COVERED:

- Construction Project Planning Workflow
- Site Layout & Design Coordination
- Budgeting & Resource Management
- Team Collaboration & Reporting
- Construction Monitoring & Documentation
- Final Project Presentation & Review

SKILLS GAINED:

- Real-World Construction Experience
- Team Collaboration Skills
- Construction Documentation Skills
- End-to-End Planning Workflow Understanding

PRACTICAL LEARNING:

- Work on real construction case studies
- Develop planning and scheduling workflows
- Collaborate in project management teams
- Present construction solutions professionally

Module 7

Placement & Career Preparation

TOPICS COVERED:

- Resume Building & ATS Optimization
- LinkedIn & Professional Branding
- Construction Industry Interview Preparation
- Project Documentation & Portfolio Building
- Mock Interviews & HR Preparation
- Career Guidance & Industry Exposure

SKILLS GAINED:

Students will be prepared for internships, construction planning roles, site management opportunities, and infrastructure development careers.

CAREER SUPPORT INCLUDES:

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



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Thank You!!



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