

Gurukul Educational And Research Institute

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Certificate Course in Construction Supervision & Site Management

Duration 6 Months (300–360 Hours)

Eligibility 10th / 12th Pass (ITI preferred but not mandatory)

Course Type Vocational / Technical Skill Development

Course Objectives

Students will:

- Understand construction basics
- Read building drawings
- Supervise site work
- Manage labor and materials
- Ensure safety compliance
- Coordinate with engineers and contractors

Course Structure

Module 1: Introduction to Construction Industry (Month 1)

Topics:

- Overview of construction industry
- Types of buildings (Residential, Commercial, Industrial) Roles of engineer, architect, contractor, supervisor
- Construction terminology

Activities:

- Site visit
- Material identification

Module 2: Building Materials & Construction Technology (Month 2)

Topics:

- Cement, sand, aggregates Steel
- reinforcement Bricks & blocks
- Concrete mixing ratio Basic
- foundation types

Practical:

- Concrete ratio measurement
- Material quality checking Site
- material storage methods
- **Module 3: Reading Drawings & Measurements (Month 3)**

Topics:

- Basic building drawings
- Plan, elevation, section
- Measurement techniques
- Quantity estimation basics
- BOQ (Bill of Quantities)
- introduction

Practical:

- Interpreting house plan
- Measuring site area

Module 4: Site Supervision & Work Execution (Month 4)

Topics:

- Excavation supervision
- Foundation checking
- Rcc work supervision
- Brick work supervision
- Plumbing & electrical
- coordination

Practical:

Checking shuttering alignment
Monitoring slab casting
Quality inspection checklist

Module 5: Safety & Quality Control (Month 5)

Topics:

- Construction safety rules
- PPE usage Accident
- prevention Quality control
- basics Time management on site

Practical:

- Safety drill Preparing
- Daily site report

Module 6 : Project Management & Career Skills (Month 6)

Topics:

- Labor management Material
- planning Cost estimation basics
- Communication with clients
- Contractor coordination Career
- growth & licensing basics

Activities:

- Site supervision simulation
- Final project report preparation



Infrastructure Required

- Classroom with projector
- Sample construction drawings
- Basic measuring tools Safety
- equipment (helmet, gloves)
- Site visit tie-up



Learning Outcomes

After completion, students will:

- Supervise residential construction
- Read basic building drawings
- Check material quality
- Ensure safety compliance
- Coordinate with engineers & workers
- Work as Junior Site Supervisor

