

CONSTRUCTION SITE MANAGEMENT & SUPERVISION



**CE0104 Civil
Engineering**

COURSE TITLE

Construction Site Management & Supervision

COURSE DATE/ VENUE

16th - 20th Jun 25'

Spain - Barcelona

COURSE REFERENCE

CE0104

COURSE DURATION

05 days

DISCIPLINE

CIVIL ENGINEERING

COURSE INTRODUCTION

Site Management and Construction Management is a comprehensive course designed to equip students with the knowledge and skills required to effectively manage and supervise a construction site. This course covers a wide range of topics, including strategic planning, safety management, quality management, resource management and legal concepts. Through a combination of curriculum and practical applications, students will learn to oversee construction projects from start to finish, ensuring they are delivered on time, on budget and to a good standard.

COURSE OBJECTIVE

1. Understand the fundamentals of construction site management: Acquire knowledge of the principles and practices of effective management of construction sites.
2. Develop project management skills: Learn how to create a detailed plan, schedule and budget.

3. Ensure security and compliance: Understand security standards and know how to implement security standards on site.
4. Manage resources effectively: Learn to allocate and manage resources, including services, equipment and supplies
5. Implement quality control measures: Obtain skills to ensure construction quality through various control measures.
6. Navigating legal and contractual issues: Understand the legal aspects of construction projects, including contracts and dispute resolution.
7. Improve communication and leadership skills: Develop strong communication and leadership skills to effectively manage team builders

COURSE AUDIENCE

This training course is designed for people who desire to learn practical site management techniques that will assist them in completing work tasks, establishing and maintaining priorities and meeting deadlines for work and projects.

This training course is suitable to a wide range of project management professionals but will greatly benefit:

- ✓ New project Professionals
- ✓ Site Engineers
- ✓ Cost Engineers
- ✓ Superintendents
- ✓ Managers

COURSE CONTENT

Module 1: Introduction to Construction Site Management

- Overview of Construction Industry
- Roles and Responsibilities of a Construction Manager
- Phases of a Construction Project
- Key Stakeholders in Construction Projects

Module 2: Project Planning and Scheduling

- Project Planning Techniques

- Work Breakdown Structure (WBS)
- Critical Path Method (CPM)
- Gantt Charts and Scheduling Software
- Resource Allocation and Leveling

Module 3: Construction Safety Management

- Safety Regulations and Standards (OSHA, etc.)
- Risk Assessment and Hazard Identification
- Safety Plans and Procedures
- Emergency Response Planning
- Accident Prevention and Reporting

Module 4: Quality Management in Construction

- Quality Control vs. Quality Assurance
- Inspection and Testing Procedures
- Quality Management Systems (QMS)
- Non-conformance and Corrective Actions
- Continuous Improvement Practices

Module 5: Resource Management

- Labor Management
- Material Procurement and Management
- Equipment Management
- Cost Control and Budgeting
- Lean Construction Techniques

Module 6: Legal and Contractual Aspects

- Construction Contracts and Types
- Contract Administration
- Dispute Resolution Methods
- Construction Law and Ethics
- Documentation and Record Keeping

Module 7: Site Supervision and Communication

- Supervisory Skills and Leadership
- Effective Communication on Site
- Team Building and Conflict Resolution
- Stakeholder Management
- Reporting and Documentation

Module 8: Environmental and Sustainability Considerations

- Environmental Regulations
- Sustainable Construction Practices

- Waste Management
- Energy Efficiency
- Green Building Standards (LEED, etc.)

Module 9: Case Studies and Practical Applications

- Analysis of Real-World Construction Projects
- Problem-Solving Workshops
- Simulations and Role-Playing
- Site Visits (if applicable)
- Guest Lectures from Industry Professionals

Module 10: Final Project and Assessment

- Capstone Project
- Project Presentations
- Peer and Instructor Feedback
- Final Examination
- Course Review and Wrap-up

❖ Assessment Methods:

- **Quizzes and Tests:** To evaluate understanding of theoretical concepts.
- **Assignments and Projects:** Practical application of course content.
- **Class Participation:** Active involvement in discussions and activities.
- **Final Examination:** Comprehensive assessment of course knowledge.
- **Capstone Project:** Real-world project management simulation.

❖ Recommended Resources:

- **Textbooks:** Relevant and up-to-date textbooks on construction management and supervision.
- **Software Tools:** Project management software (e.g., MS Project, Primavera).
- **Industry Journals:** Subscriptions to key industry publications.
- **Online Resources:** Access to online databases and construction management forums.

This course outline ensures a well-rounded education in construction site management and supervision, preparing students for successful careers in the construction industry.

COURSE CERTIFICATE

TRAINIT ACADEMY will award an internationally recognized certificate(s) for each delegate on completion of training.

COURSE FEES

£5,750 per Delegate. This rate includes participant's manual, Hand-Outs, lunch, coffee/tea on arrival, morning & afternoon of each day.

COURSE METHODOLOGY

The training course will be highly participatory and the course leader will present, guide and facilitate learning, using a range of methods including formal presentation, discussions, sector-specific case studies and exercises. Above all, the course leader will make extensive use of real-life case examples in which he has been personally involved. You will also be encouraged to raise your own questions and to share in the development of the right answers using your own analysis and experiences. Tests of multiple-choice type will be made available on daily basis to examine the effectiveness of delivering the course.

- 30% Lectures
- 30% Workshops and work presentation
- 20% Case studies & Practical Exercises
- 10% Role Play
- 10% Videos, Software or Simulators (as applicable) & General Discussions