

Civil & Construction Management - 2 days (8 hours per day)

Day 1: Introduction to Civil & Construction Management

Session 1: Understanding Civil Engineering Basics

- Introduction to Civil Engineering
- Overview of Construction Management
- Importance of Civil Engineering in Construction Projects

Session 2: Project Planning and Scheduling

- Introduction to Project Management
- Basics of Project Planning
- Techniques for Project Scheduling

Session 3: Construction Materials and Methods

- Types of Construction Materials
- Construction Methods and Techniques
- Sustainable Construction Practices

Session 4: Quality Control and Assurance

- Importance of Quality in Construction
- Quality Control Measures
- Quality Assurance Techniques

Day 2: Advanced Topics in Civil & Construction Management

Session 5: Risk Management in Construction Projects

- Understanding Risks in Construction
- Risk Identification and Assessment
- Strategies for Risk Mitigation

Session 6: Cost Estimation and Budgeting

- Basics of Cost Estimation

- Methods for Budgeting in Construction Projects
- Cost Control Techniques

Session 7: Legal and Regulatory Aspects

- Overview of Construction Laws and Regulations
- Contract Management
- Dispute Resolution in Construction Projects

Session 8: Case Studies and Practical Applications

- Analysis of Real-world Construction Projects
- Discussion on Challenges and Solutions
- Practical Exercises and Group Activities

This TOC covers essential topics in civil and construction management, providing participants with a comprehensive understanding of the field over the course of two days. Adjustments can be made based on specific learning objectives or participant backgrounds.