

Course Overview:

This advanced course is tailored for professionals in maintenance and engineering, emphasizing the strategic integration of engineering principles into construction project management. Designed for experienced practitioners, it provides the tools to master complex construction planning, site execution, safety compliance, and quality assurance in high-stakes environments.

Course Objective:

- Integrate advanced engineering concepts into construction project execution
- Develop and implement efficient construction project plans
- Manage multidisciplinary construction teams and stakeholders effectively
- Ensure compliance with safety, quality, and legal standards
- Evaluate real-world projects to extract best practices and emerging trends

Course Outline:

1. Advanced Construction Engineering Concepts
 - Modern Engineering Techniques in Construction
 - Construction Design Principles
 - Technology Integration in Construction Engineering
2. Construction Project Planning and Execution
 - Project Lifecycle Management
 - Resource Allocation and Scheduling
 - Effective Execution Strategies
3. Construction Project Management
 - Management Principles in Construction
 - Stakeholder and Team Management
 - Budgeting and Financial Management
4. Site Management and Safety
 - Site Organization and Logistics
 - Safety Standards and Protocols
 - Risk Management on Construction Sites
5. Quality Control and Assurance
 - Quality Standards in Construction
 - Quality Assurance Processes
 - Continuous Quality Improvement
6. Sustainable Construction Practices
 - Eco-Friendly Construction Methods
 - Sustainability in Project Planning
 - Environmental Impact Assessment
7. Legal and Ethical Aspects of Construction
 - Legal Framework in Construction Industry
 - Ethical Considerations
 - Compliance and Regulatory Issues
8. Case Studies and Industry Trends
 - Real-World Construction Engineering Projects
 - Emerging Trends in Construction Management

Training Language:

EN

Training Methodology:

The course combines various teaching methods, including instructor-led presentations, group discussions, case study analyses, and assessments through quizzes and a final exam to engage participants and ensure they understand and retain the material.

Venue | Date | Fees

Riyadh | 31-08-2025 | 17,250 SAR

-Best Practices and Lessons Learned

Who Should Attend:

- Construction Engineers
- Project Managers in Construction
- Site Managers
- Maintenance Engineers