

Engineering and Construction Project Auditing - 2 days training

16 – 20 August 2027
Barcelona (Spain)

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Introduction

Engineering and construction project auditing plays a vital role in ensuring that projects meet established quality, cost, schedule, regulatory, and contractual requirements. This intensive two-day course provides participants with the essential knowledge and skills required to plan, conduct, document, and follow up on engineering and construction project audits.

The course focuses on the most critical aspects of the audit process, including audit planning, risk assessment, on-site auditing, evidence collection, findings analysis, reporting, corrective actions, and continuous improvement. Participants will gain a practical understanding of how effective auditing can support project performance, compliance, and successful delivery.

Course Objectives

By the end of this course, participants will be able to:

- Understand the principles, purpose, and importance of engineering and construction project auditing.
- Define audit objectives, scope, criteria, and risk areas.
- Plan and conduct effective engineering and construction project audits.
- Collect, evaluate, and document audit evidence and findings.
- Prepare clear audit reports and communicate findings effectively.
- Identify non-conformities and recommend appropriate corrective actions.
- Apply audit results to support compliance, quality, and continuous improvement.

Course Outlines

Day 1: Audit Planning, Risk Assessment and On-Site Auditing

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A graphic illustration of a chessboard with several chess pieces. A large gold king piece is prominent in the foreground, with a silver pawn and a silver knight nearby. The board is checkered, and there are concentric circles in the background.

1. Fundamentals of Engineering and Construction Project Auditing

- Purpose, importance, and types of project audits
- Technical, quality, and compliance audits
- Key auditing concepts and terminology

2. Pre-Audit Preparation and Planning

- Defining audit objectives, scope, and criteria
- Reviewing project documentation and records
- Developing an effective audit plan and checklist

3. Risk Assessment and Audit Priorities

- Identifying project risks and critical audit areas
- Assessing compliance, quality, cost, and schedule risks
- Establishing risk-based audit priorities

4. On-Site Auditing and Inspection

- Conducting construction site audits and inspections
- Reviewing project activities and controls
- Identifying compliance issues and potential weaknesses

5. Evidence Collection and Documentation

- Data and evidence-gathering techniques
- Interviewing project personnel and stakeholders
- Recording audit observations and findings accurately

Day 2: Findings, Reporting, Corrective Actions and Continuous Improvement

1. Analysis of Audit Findings

- Evaluating audit evidence
- Identifying non-conformities and compliance gaps
- Assessing the significance and priority of findings

2. Audit Reporting and Documentation

- Structure and preparation of effective audit reports
- Documenting findings, evidence, and recommendations
- Communicating audit results to project stakeholders

3. Corrective Actions and Follow-Up

- Developing corrective and preventive actions
- Monitoring corrective action implementation
- Verifying closure of audit findings

4. Compliance, Quality and Project Performance

- Regulatory and legal considerations
- Quality assurance and project controls
- Using audit results to improve project performance

5. Continuous Improvement and Lessons Learned

- Identifying recurring issues and improvement opportunities
- Applying lessons learned to future projects
- Real-world examples and case studies in project auditing

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Why Attend This Course? Wins & Losses!

Wins

- Gain a clear understanding of engineering and construction project auditing.
- Develop the ability to plan and conduct structured project audits.
- Improve skills in evidence collection, findings analysis, and audit reporting.
- Strengthen the ability to identify risks, non-conformities, and compliance gaps.
- Learn how to use audit results to improve quality and project performance.

Losses

Without effective project auditing, organizations may face:

- Undetected compliance and quality issues.
- Increased project costs and schedule delays.
- Repeated non-conformities and unresolved risks.
- Weak documentation and ineffective corrective actions.
- Reduced project performance and greater exposure to contractual or regulatory issues.

Conclusion

This two-day intensive course provides participants with the essential principles and practices required for effective engineering and construction project auditing. By focusing on audit planning, risk assessment, on-site auditing, evidence collection, reporting, corrective actions, and continuous improvement, participants will be better equipped to contribute to project quality, compliance, and successful delivery.

Frequently Asked Questions FAQ

1. Who should attend this course?

The course is suitable for project engineers, construction professionals, auditors, quality professionals, project managers, and personnel involved in engineering and construction project controls.

2. What are the main areas covered in the course?

The course covers audit planning, risk assessment, on-site auditing, evidence collection, findings analysis, reporting, corrective actions, compliance, and continuous improvement.

3. Will the course cover construction project audits specifically?

Yes. The course focuses specifically on auditing engineering and construction projects, including technical, quality, and compliance considerations.

4. Will participants learn how to prepare audit reports?

Yes. Participants will learn the key principles for documenting audit evidence, findings, recommendations, and corrective actions in an effective audit report.

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