

## Engineering and Construction Project Auditing

*Toronto (Canada)*

*3 - 7 February 2025*

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## Engineering and Construction Project Auditing

Code: QM28 From: 3 - 7 February 2025 City: Toronto (Canada) Fees: 4700 Pound

### Introduction

In the dynamic world of engineering and construction, the importance of auditing for project success cannot be overstated. This 5-day course, "Engineering and Construction Project Auditing," serves as a foundational exploration of auditing practices in these industries. Auditing is a critical component of project management, ensuring compliance, quality, and adherence to industry standards. Through this course, participants will delve into the world of project auditing, equipping themselves with the knowledge and skills necessary to excel in this role.

### Course Objectives

- Understand the significance of auditing in engineering and construction projects: Participants will learn how construction project audits influence project outcomes and ensure quality.
- Define key auditing terminology and concepts: Gain familiarity with important terms related to the engineering audit process.
- Comprehend the various types of audits and their relevance: Explore the different aspects of technical and quality audits in construction projects.
- Recognize legal and ethical considerations in project auditing: Understand how regulations affect the duties of construction engineers.
- Gain an overview of how audits contribute to project success: Learn how audit engineering can impact the final results of projects.

### Course Outlines

#### Day 1: Introduction and Fundamentals of Auditing

- Develop the skills to plan and execute effective audits for construction projects.
- Learn how to collect and analyze data during on-site audits.
- Master the art of preparing comprehensive audit reports that improve project quality.
- Understand how to communicate findings and recommendations to project stakeholders.
- Acquire knowledge about post-audit activities and continuous improvement processes.

#### Day 2: Pre-Audit Preparation and Planning

- Set audit objectives and scope for construction projects.
- Conduct risk assessments and identify audit criteria.
- Develop an audit plan and checklist tailored to construction engineering and management.
- Understand the roles and responsibilities of the audit team in the context of construction projects.
- Gather necessary documentation and data for the audit.

#### Day 3: On-Site Auditing and Data Collection

A graphic of a chessboard with several chess pieces (a king, a queen, a rook, and a pawn) on it. The board is white and black, and the pieces are gold and silver. The text 'UK Training PARTNER' is overlaid on the board.

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- Conduct on-site audits and site inspections.
- Use effective data collection and evidence-gathering techniques.
- Interview project stakeholders and personnel for insights.
- Document audit findings and observations accurately.
- Manage communication and collaboration with project teams to ensure compliance and quality.

#### Day 4: Audit Reporting and Documentation

- Analyze audit findings and identify issues.
- Prepare comprehensive audit reports that contribute to effective project management.
- Communicate findings and recommendations to project stakeholders clearly.
- Address non-conformities and implement corrective actions as necessary.
- Document and archive audit records for compliance and future reference.

#### Day 5: Post-Audit Activities and Continuous Improvement

- Follow up after audits and verify the implementation of corrective actions.
- Learn from audits and understand their impact on future projects.
- Focus on continuous improvement in auditing processes for enhanced quality.
- Ensure regulatory compliance and consider legal factors.
- Study case studies and real-world examples of project auditing to reinforce practical understanding.

A graphic of a chessboard with several chess pieces (a king, a pawn, and a knight) on it, set against a background of concentric circles. The text 'UK Training PARTNER' is overlaid on the right side of the board.

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The image features a chessboard graphic with several chess pieces (a king, a pawn, and a knight) on a checkered surface. The text 'UK Training PARTNER' is overlaid on the board, with 'PARTNER' in a larger, bold font.