

€ TRAINING

Power Plant Performance Analysis and Audit



25 - 29 November 2024
Barcelona (Spain)



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REF: A866 DATE: 25 - 29 November 2024 Venue: Barcelona (Spain) - Fee: 5565 Euro

Introduction:

This training program is designed to equip professionals with the knowledge and skills needed to conduct effective management analysis and operational audits for power generation facilities. It empowers them to drive excellence in power generation plant operations.

Program Objectives:

At the end of this program, participants will be able to:

- Understand the principles and practices of management analysis and operational audit in the context of electric power generation plants.
- Develop and implement audit plans and procedures tailored to the specific needs of power generation facilities.
- Conduct thorough operational audits to assess performance, reliability, and efficiency.
- Evaluate key performance indicators KPIs and performance metrics to measure plant performance effectively.
- Provide actionable recommendations to enhance operational efficiency and optimize plant performance.

Targeted Audience:

- Plant managers and supervisors in electric power generation plants.
- Operations managers and engineers responsible for plant performance.
- Auditors and quality assurance personnel specializing in power generation.
- Energy consultants and analysts involved in power generation projects.
- Professionals seeking to enhance their skills in management analysis and operational audit for power plants.

Program Outlines:

Unit 1:

Introduction to Management Analysis and Operational Audit for Electric Power Generation Plants:

- Overview of management analysis and operational audit concepts.
- Understanding the unique challenges and opportunities in electric power generation.
- Key principles and objectives of operational audit in power generation plants.
- The role of performance evaluation in optimizing plant operations.
- Case studies and examples of successful operational audits in power generation.

Unit 2:

Developing Audit Plans and Procedures for Power Generation Plants:

- Steps to develop a comprehensive audit plan tailored to power generation plants.
- Identifying audit scope, objectives, and criteria specific to plant operations.
- Creating audit schedules and checklists for different areas of plant operations.
- Preparing audit documentation and tools for effective data collection and analysis.
- Aligning audit plans with regulatory requirements and industry standards.

Unit 3:

Conducting Operational Audits for Power Generation Plants:

- Planning and preparing for operational audits, including safety considerations.
- Techniques for gathering and analyzing audit evidence, including data analysis and field observations.
- Conducting on-site inspections and interviews with plant personnel.
- Evaluating plant performance against established KPIs and performance metrics.
- Documenting audit findings and compiling audit reports for management review.

Unit 4:

Performance Evaluation and Analysis in Power Generation Plants:

- Identifying key performance indicators KPIs for power generation plants.
- Analyzing performance data to assess plant efficiency, reliability, and safety.
- Benchmarking plant performance against industry standards and best practices.
- Identifying trends and patterns in performance data to inform decision-making.

- Utilizing performance evaluation tools and software for data analysis and visualization.

Unit 5:

Recommendations and Continuous Improvement in Power Generation Plant Operations:

- Interpreting audit results and identifying areas for improvement.
- Developing actionable recommendations to enhance operational efficiency and performance.
- Communicating findings and recommendations to plant management and stakeholders.
- Establishing mechanisms for continuous improvement in plant operations.
- Monitoring the implementation of recommendations and measuring the impact on plant performance.