



*Training Course:
Performance Evaluation of Electric Power
Generation Plants*

*15 - 19 February 2027
Kigali (Rwanda)*

Training Course: Performance Evaluation of Electric Power Generation Plants

Training Course code: FI9075 From: 15 - 19 February 2027 Venue: Kigali (Rwanda) - Training Course Fees: 6350 € Euro

Introduction

This program equips participants with the essential skills required to conduct management analysis and operational audits within electrical power generation facilities. It focuses on evaluating management systems and measuring operational effectiveness, efficiency, and goal achievement.

Participants will gain the ability to assess whether organizational policies, strategies, objectives, processes, and procedures are properly designed, effectively implemented, and aligned with industry best practices. The program also emphasizes identifying improvement opportunities and benchmarking operational performance against industry leaders.

Objectives

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

- Conduct structured management analysis and operational audits
- Evaluate the effectiveness and efficiency of power generation operations
- Assess alignment between strategies, objectives, and operational execution
- Review compliance with internal policies and industry best practices
- Identify operational gaps and improvement opportunities
- Benchmark processes against leading organizations in the industry
- Develop practical recommendations for performance improvement

Target Audience

This program is designed for:

- Operations managers in power generation plants
- Maintenance and engineering supervisors
- Internal auditors and compliance officers
- Quality and performance improvement specialists
- Plant managers and senior technicians
- Energy sector professionals involved in operational control and efficiency
- Consultants and advisors in industrial performance and auditing

Outline

Day 1: Introduction to Operational Audit & Management Analysis

- Concept of operational auditing
- Objectives of management analysis
- Overview of power generation operations
- Audit scope and audit planning

- Key performance concepts efficiency, effectiveness, economy

Day 2: Evaluation of Management Systems

- Policies, strategies, and objectives review
- Organizational structure assessment
- Process mapping and workflow analysis
- Internal control systems in operations
- Compliance with standards and procedures

Day 3: Operational Performance Measurement

- KPIs in power generation plants
- Measuring efficiency and productivity
- Resource utilization analysis
- Downtime and performance loss analysis
- Goal achievement evaluation

Day 4: Compliance, Risk & Best Practices

- Identifying operational risks
- Safety and regulatory compliance review
- Benchmarking against industry standards
- Best practices in power plant operations
- Gap analysis and improvement identification

Day 5: Reporting & Improvement Planning

- Audit findings and reporting techniques
- Structuring improvement recommendations
- Corrective and preventive actions CAPA
- Performance improvement planning
- Final case study: full operational audit simulation

Registration form on the Training Course: Performance Evaluation of Electric Power Generation Plants

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