



Operation Certificate for Power Plant Shift Supervisor

01 - 05 Nov 2026
Istanbul (Turkey)



Operation Certificate for Power Plant Shift Supervisor

Ref.: 121479_1034387 **Date:** 01 - 05 Nov 2026 **Location:** Istanbul (Turkey) **Fees:** 5500 Euro

Introduction

This Operation Certificate for Power Plant Shift Supervisor course prepares professionals for advanced operational leadership roles within thermal and combined-cycle power plants. It provides a structured understanding of power generation systems, shift coordination, and control room operations in high-demand environments. Participants will develop the ability to supervise plant operations efficiently while maintaining safety, reliability, and performance standards. The program focuses on real-time decision-making processes required in shift supervision and operational control. It also strengthens understanding of integrated plant systems, including boilers, turbines, generators, and auxiliary units. Learners will ensure operational continuity and handle emergencies effectively in modern power plants.

Targeted Groups

This Operation Certificate for Power Plant Shift Supervisor training targets professionals seeking knowledge and skills:

- Control room operators aiming to advance into shift supervisor roles.
- Power plant technicians responsible for operational monitoring and maintenance.
- Energy sector engineers seeking operational leadership certification.
- Industrial plant supervisors working in generation facilities.
- Technical staff involved in boiler, turbine, and generator operations.
- Professionals seeking shift supervisor training in power plant operations.

Course Objectives

Participants will achieve the following objectives by completing the Operation Certificate for Power Plant Shift Supervisor course:

- Understand full-cycle power plant operations, including generation systems and control room procedures.
- Develop expertise in shift supervisor responsibilities in thermal and combined-cycle plants.
- Interpret operational data from SCADA and DCS systems for decision-making accuracy.
- Apply safe plant start-up, normal operation, and shutdown procedures effectively.
- Enhance the ability to coordinate teams during shift transitions and operational changes.
- Identify and manage operational risks in power generation environments.
- Strengthen knowledge of emergency response procedures and plant protection systems.
- Improve performance monitoring skills for boilers, turbines, and auxiliary equipment.

Targeted Competencies

Participants will gain the following competencies during the Operation Certificate for Power Plant Shift Supervisor program:

- Operational control of power plant systems under dynamic conditions.

- Shift supervision and workforce coordination in high-risk environments.
- Interpretation of technical readings and system performance indicators.
- Application of power plant operations training principles in real scenarios.
- Decision-making during abnormal and emergency plant conditions.
- Coordination of start-up and shutdown sequences safely and efficiently.
- Monitoring of control systems, including SCADA and DCS platforms.
- Compliance with industrial safety and operational standards.

Studying Scenarios

In this Operation Certificate for Power Plant Shift Supervisor training, participants develop skills through the following scenarios:

- Managing unexpected turbine trips and restoring system stability safely.
- Supervising boiler pressure fluctuations during peak load operations.
- Handling communication between the control room and field operators during shifts.
- Responding to emergency shutdown procedures in power generation units.

Course Content

Unit 1: Fundamentals of Power Plant Operations

- Introduction to power plant systems and generation cycles.
- Overview of thermal, gas, and combined-cycle power plants.
- Role and responsibilities of the shift supervisor in plant operations.
- Basic principles of electricity generation and energy conversion.
- Understanding plant layout and operational workflow structure.
- Introduction to control room operations and monitoring systems.
- Overview of power plant safety and operational discipline.
- Fundamentals of shift handover procedures and reporting systems.

Unit 2: Control Room and System Monitoring

- Functions of the control room in modern power plant operations.
- Use of SCADA systems for real-time plant monitoring.
- DCS architecture and operational interface interpretation.
- Monitoring boiler, turbine, and generator performance parameters.
- Alarm management and fault detection techniques.
- Data interpretation for operational decision-making.
- Coordination between the control room and field operators.
- Documentation of operational logs and shift reports.

Unit 3: Boiler, Turbine, and Generator Operations

- Boiler operation principles and combustion control systems.
- Steam generation process and pressure regulation methods.
- Turbine operation and the mechanical energy conversion process.
- Generator synchronization and load management techniques.
- Troubleshooting common operational faults in equipment.
- Efficiency optimization in boiler and turbine performance.
- Preventive operational checks for rotating equipment.
- Coordination of auxiliary systems supporting generation units.

Unit 4: Shift Supervision and Operational Control

- Responsibilities of a shift supervisor in power plant operations.
- Planning and execution of shift schedules and workforce allocation.
- Communication protocols during shift changeovers.
- Managing operational continuity across different shifts.
- Decision-making under pressure in plant operation environments.
- Coordination of maintenance activities during operation cycles.
- Handling abnormal operating conditions and system deviations.
- Leadership role in ensuring operational discipline and compliance.

Unit 5: Safety, Emergency Handling, and Plant Optimization

- Industrial safety standards in power plant environments.
- Emergency shutdown procedures and incident management.
- Fire, pressure, and electrical hazard control systems.
- Risk assessment techniques in power generation operations.
- Energy efficiency optimization strategies for plant performance.
- Root cause analysis of operational failures and disruptions.
- Implementation of corrective and preventive actions.
- Continuous improvement practices in power plant operations.

Final Insights & Key Takeaways

This Operation Certificate for Power Plant Shift Supervisor course builds strong operational leadership capabilities required in modern energy facilities. It ensures professionals are fully prepared to manage complex plant systems, maintain safety standards, and optimize power generation performance under real-world conditions.



**Registration form on the :
Operation Certificate for Power Plant Shift Supervisor**

code: 121479 **From:** 01 - 05 Nov 2026 **Venue:** Istanbul (Turkey) **Fees:** 5500 **Euro**

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