

# H S E

HEALTH

SAFETY

ENVIRONMENT



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## **Fire Prevention, Protection & Safety on Power Plants**

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**Duration:** 5 Days



### **Introduction:**

Power plants have special fire protection issues: few people on duty, limited numbers of response agencies, and few fixed systems. Further, because of the increasingly competitive nature of

the Electric Power Generation market, reduced plant staffing and stricter OSHA (Occupational Safety and Health Administration) requirements for employee firefighting capabilities, employees of the power generating stations need to place increased emphasis on fire protection systems and firefighting techniques in order to minimize the impacts and consequences of fires, which can damage critical equipment and reduce availability and reliability of power supplies.

This course is designed to provide utility operating personnel, power plant designers, and other interested parties with a basic understanding of the concepts, hardware and functions of fire protection as they apply to the electric power generating industry. This

understanding is the starting point for providing and maintaining appropriate fire protection for power plants.

## Who Should Attend?

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This course is applicable to engineers and technicians who need to improve their understanding of Workplace Safety. It is of particular importance to prevent accidents and loss to the employees and the company.

## Course Objectives:

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### **By the end of this course delegates will be able to:**

Understand the importance of safety in the workplace with special emphasis on Power plants. It presents the majority of the latest aspects in Risk Management and Accident Investigation. The course highlights how to identify safety training needs. Near miss, incident and accident reporting is handled to show how these statistics can help to prevent losses to the power company and its employee.

## Course Outline:

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- Fire protection principles
- The chemistry and physics of fire
- Fire suppression systems
- Life safety requirements and industrial fire hazards

- The application of power plant hazards & protection of turbines & generators
- Electrical equipment & auxiliaries and power plants
- The fire risk control program
- General fire protection systems and equipment
- Fire protection for the construction site
- The principles of safety management
- Employee attitudes towards safety
- Staff motivation
- Hazards management
- Emergency procedures
- Safety training and assessments
- Permit to work systems
- The benefits of safety management to the company and to the employees
- Safety statistics and reporting on basic safety rules
- Preventable and non preventable incidents
- Accident investigations and accident ratio studies
- The effect of risk assessment as hazard scan
- Unsafe conditions and practices
- How and when to do a hazard scan
- High risk areas identification
- Materials and operations
- The importance of formal written procedures