

Training  
Course

**Gas Plant Operations and Safety  
Management**



## Course Plan

### Introduction

Gas plants are at the heart of the energy and petrochemical industries, requiring precise operations and robust safety measures to ensure efficiency and reliability. This training course on Gas Plant Operations and Safety Management is tailored to provide participants with in-depth knowledge of gas processing systems, operational best practices, and advanced safety protocols. The program emphasizes the integration of technical skills and safety management to foster a secure and productive work environment in gas facilities.

### Course Objectives:

- ✓ Develop a clear understanding of gas plant operations and processing systems.
- ✓ Learn safety management strategies to prevent accidents and ensure compliance.
- ✓ Master techniques for identifying and mitigating operational risks.
- ✓ Gain knowledge of equipment maintenance and reliability practices.
- ✓ Understand environmental and regulatory requirements for gas plants.
- ✓ Enhance emergency preparedness and crisis management skills.
- ✓ Improve operational efficiency while maintaining safety standards.



## Who Should Attend?

- Gas plant operators and engineers.
- Safety managers and supervisors in the gas industry.
- Maintenance and technical personnel in gas facilities.
- Professionals involved in gas plant design and project management.
- Environmental officers and compliance specialists.
- Students and researchers in gas processing and industrial safety.
- Energy sector professionals seeking to enhance their knowledge of gas operations.
- Emergency response teams working in gas facilities.

## Training Methods:

- ✓ Online Video material.
- ✓ Presentation.
- ✓ Live Interactive sessions.
- ✓ Course presenter will make extensive use of all tools that will be needed for the virtual environment.
- ✓ Questions & Answers

## Course Outline:

### Day One

- Introduction to Gas Plant Operations and Processes
- Understanding Gas Plant Systems and Components
- Types of Gas Plants and Their Applications
- Gas Processing Techniques: Separation, Compression, and Dehydration

### Day Two

- Safety Management Systems (SMS) in Gas Plants
- Process Hazard Analysis (PHA) and Risk Management
- Key Safety Equipment in Gas Plants and Their Maintenance
- Emergency Response and Crisis Management in Gas Facilities

### Day Three

- Best Practices for Plant Operations and Efficiency
- Process Safety Management (PSM) Principles
- Regulatory and Environmental Compliance in Gas Operations
- Gas Storage and Distribution: Challenges and Solutions

### Day Four

- Operational Risk Assessment and Control Measures
- Control Systems and Automation in Gas Plants
- Fire Safety and Explosion Prevention in Gas Facilities
- Maintenance Strategies for Gas Plant Equipment

### Day Five

- Monitoring and Managing Gas Emissions
- Incident Investigation and Reporting in Gas Plants
- Innovations and Emerging Technologies in Gas Processing
- Case Studies: Lessons from Gas Plant Operations and Accidents

## Training Details

Course Duration

5 Days

Pre-Schedule

12 - 16 Jan 2025

Venue

London – Double Tree by Hilton Kensington Hotel

Training Fees Per Person

KWD 1500 ( One Thousand Five Hundred )

Course Fees Include

- ✓ Tuition documentation
- ✓ Curriculum and Training Handout
- ✓ Five Star Lunch
- ✓ Completion Certificates