



External Training Course

The Latest Solutions in Fire Engineering to Avoiding Incidents in Oil & Gas Industry

From 22 Jul. To 26 Jul. 2024
From 23 Sep. To 27 Sep. 2024
From 25 Nov. To 29 Nov. 2024

**Doubletree by Hilton Los Angeles Downtown
Los Angeles, United States of America**

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External Training Course:

**The Latest Solutions in Fire Engineering to
Avoiding Incidents in Oil & Gas Industry**

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Fees: 2500 KD

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Course Overview:

This course provides a comprehensive understanding of the latest fire engineering techniques, technologies, and practices to prevent and mitigate fire incidents in the oil and gas industry. It covers advanced detection systems, suppression methods, passive fire protection, safety management, and regulatory compliance.

Learning Objectives:

By the end of this course, participants will:

- Understand the principles of fire engineering in the oil and gas sector.
- Learn about the latest fire detection and suppression technologies.
- Gain knowledge of passive fire protection methods and materials.
- Develop skills in fire safety management and emergency response planning.
- Understand the importance of data integration and analytics in fire prevention.
- Learn about regulatory standards and compliance requirements.

Training Methodology:

This training course will utilize a variety of proven adult learning techniques to ensure maximum understanding, comprehension, and retention of the information presented. Includes stimulating presentations supporting each of the topics together with interactive trainer lead sessions of discussion. There will also be practical sessions where participants can practice and experience course-related activities. Practical and fun exercises, short video presentations, small group work, and feedback will be used to facilitate learning.

Course Outline:

Module 1: Introduction to Fire Engineering in the Oil and Gas Industry

- Overview of fire risks and incidents in the oil and gas sector.
- Basic principles of fire science and engineering.
- Importance of fire safety and prevention.

Module 2: Advanced Fire Detection Systems

- Infrared and ultraviolet detectors.
- Video-based fire detection.
- IoT and smart sensors for fire detection.
- Integration of detection systems with control centers.

Module 3: Fire Suppression Technologies

- Water mist systems.
- Foam suppression systems.
- Gas-based suppression systems (e.g., CO2, inert gases).
- Innovations in fire suppression equipment.

Module 4: Passive Fire Protection (PFP)

- Intumescent coatings and their applications.
- Fire-resistant materials and their properties.
- Structural fire protection strategies.
- Case studies on effective PFP implementations.

Module 5: Fire Safety Management and Planning

- Conducting risk assessments and hazard analysis.
- Developing and implementing fire safety management plans.
- Emergency response planning and execution.
- Importance of regular drills and training.

Module 6: Technology and Data Integration

- Role of IoT in fire safety.
- Using data analytics and AI to predict fire hazards.
- Integration of fire safety systems with plant operations.
- Case studies on successful technology integrations.

Module 7: Regulatory Compliance and Standards

- Overview of relevant fire safety regulations and standards (NFPA, API, etc.).
- Ensuring compliance with local and international standards.
- Conducting fire safety audits and inspections.
- Keeping up-to-date with changes in regulations.

Module 8: Safety Culture and Training

- Promoting a safety culture within the organization.
- Designing and implementing comprehensive training programs.
- Engaging employees in fire safety initiatives.
- Measuring the effectiveness of training and safety programs.