

# H S E

HEALTH

SAFETY

ENVIRONMENT



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## **HAZMAT APPLICATIONS: Petroleum Products (LPG, LNG, CNG, Propane, Hydrogen, Gasoline, Diesel and MTBE): Road & Rail**

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**Duration:** 5 Days



### **Introduction:**

Hazardous materials are used in many processes in the industry all over the world. Due to the nature of hazardous materials every production, storage, and transportation activity related to the use of these materials inherits many risks for both society and environment. Despite this fact, the use of hazardous material has been justified by the economical revenue, which is generated by their use. In

order to avoid the risks turning into real events it is necessary to integrate risk mitigation and prevention measures into the transport management.

### **Who Should Attend?**

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- Managers, Engineers, Superintendents, Supervisors and Foremen from Refineries, Gas Plants and Fuel distribution companies

- Environmental  
Managers/Engineers/Officers/Researchers/Personnel
- Safety Managers/Engineers/Officers/Researchers/Personnel
- HSE Managers/Engineers/Officers/Researchers/Personnel
- Governmental / Regulatory Authorities
- Universities/Academies Professors/Researchers

## **Workshop Certificate:**

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BTS Consultant Certificate will be issued to all attendees completing minimum of 75% of the total tuition hours of the workshop.

## **Accommodation:**

Accommodation is not included in the workshop fees. However, any accommodation required can be arranged by BTS Consultant at the time of booking.

The very nature of the bulk and containerized transportation of hazardous material dictates that unforeseen and varied emergency situations can occur and accidents when they occur are likely to have greater impact. These emergencies when they happen are unpredictable can happen quickly, unexpectedly and invariably require immediate response. Therefore, the United States Department of Transportation (DOT) has established a series of regulations governing the transportation of hazardous material (Hazmat 49 CFR 171-173, Hazmat HM-181, Hazmat HM-126, Hazmat HM-232 etc.).

Petroleum products such as LPG, LNG, CNG, Propane, Hydrogen, Gasoline, Diesel and MTBE are the most commonly transported hazardous material, with approximately 2,000,000 petrol tankers on the roads worldwide carrying some 10,000 million tones of petroleum products. Further, more than 1000 million tons of petroleum products are moved by rail worldwide each year.

This state-of-the-art workshop is designed to address the Hazmat regulations and procedures in general and the Petroleum Products in particular. During the duration of this interactive workshop, participants will be exposed to the Loading, Unloading, Storing, and Transportation of Petroleum Products such LPG, LNG, CNG, Propane, Hydrogen, Gasoline, Diesel and MTBE. The workshop will cover the road and rail transportation methods only. Transportation by air and sea are outside the scope of this workshop.

## **Course Objectives:**

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

- The Petroleum Industry
- Upstream & Downstream
- Petroleum Refining
- Petroleum Transportation Methods
- Major Petroleum Products
- General overview of Health, Safety and Environment. (HSE)
- Risk Assessment
- HSE Management Systems & Standards
- Occupational Safety & Health Administration (OSHA) Regulations

- General overview of Hazardous Materials Handling and Transportation (HAZMAT)
- HAZMAT Application: Petroleum Products: LOADING
- HAZMAT Application: Petroleum Products: UNLOADING
- HAZMAT Application: Petroleum Products: STORING
- HAZMAT Application: Petroleum Products: TRANSPORTATION