



# Training Programme on Tank Farm Operation & Maintenance Performance

**Mode:** Online – Virtual Programme  
**Date:** 1<sup>st</sup>-2<sup>nd</sup> December 2022 | **Time:** 2:00 PM - 5:30 PM

**For Online Registration kindly Click Here**  
(<https://registrations.ficci.com/TPTFMP/online-registration.asp>)

Federation of Indian Chambers of Commerce & Industry (FICCI) in collaboration with IITC is organising an Online Certification Programme to help professionals sharpen their knowledge.

Training and development are an investment in future success - give yourself and your employees the keys to success.

Employee training and development will unlock the companies' profitability and reliability. When people, processes and technology come together as a team developing practical solutions, companies can maximize profitability and assets in a sustainable manner.

## Training Programme Overview

The effective management and operation of a Plant/Terminal is essential, The processing, transporting and storing of products, in tank farms, involves custody transfers of partner, commingled stock, significant volumes of knowledge from various sources and blending operations complexities. In addition, as these liquids are loaded and off loaded in bulk quantities, there's an outsized transfer of high value that creates it imperative for area operators to efficiently manage their inventory and maximize their return on Investment.

This Tank Farm Operations and Performance training programme provides knowledge of the American Petroleum Institute API-650, API 620 and API 2610 specifications as well as the API 653 inspection standard. Emphasis is additionally given on safety therefore, the training includes Seveso III Directive real world example reports, how they were carried out and Implemented.

## Target Participants

- HSE/Safety Officers
- Electrical/Mechanical Team
- Operations & Maintenance Team
- Health, Safety & Environment Team
- Production Team
- Logistics, Transportation Team
- HR/Trg/Planning Team
- Purchase & Design Team
- Construction & Engineering Team
- HSE/SEQ Team & Other Functions

## Participation Fee

### FICCI Member:

Rs.13,000 +18% GST

### Others:

Rs.15,000 +18% GST

### Early Bird Discount:

5% Discount on Registration Fee for 3 or More Participants from Same Organisation



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## Takeaway from Training Programme

Upon successful completion of this technical training programme, participants will gain Knowledge/Exposure on

- Product terminals and tank farms best operating practices, management skills
- Enhance your understanding of correct sampling and custody transfer/Bill of Lading
- Carry out how vapour emissions and recovery are carried out
- Methods of tank gauging, product blending and tank mixing
- Cleaning of product tanks
- Understand & use a piece permit system
- Pigging operations of pipelines
- Quality assurance & control, contingency and safety procedures
- Evaluate the main fire risks in a workplace & overview of fire prevention
- Implement a successful evacuation, fire safety strategy of a workplace in the event of fire.

These key concepts can be utilized to make decisions that can improve your plant/unit's performance.

### Module I - Familiarization & Tank Types, Construction & Requirements for Stored Products

- Introduction to the Process Industry
- Safety for the Process Industry
- Tank Farms Differences and Purpose
- Roof Types
  - Fixed, Dome & Cone
  - Floating Roof, Internal / External
- Suction Levels Fixed / Floating
- Loading Rack and Overview
- Estimation and Measurement of Tank Emissions and Losses
- Vapor Recovery Systems
- Facility Siting and Risk Management

### Module II - Tank & Terminal Operations

- Tank Farm Layout, Secondary Containment, Bund Walls
- Emergency Response, Handling Oil Spills
- Water Drainage Systems Network and Process Water Treatment
- Ship to Shore Transfers, Ship Loading and Discharge Process
- The of Bill of Lading, Custody Transfer and Administration
- Tank Gauging, Metering, Meter Proving, Stock Loss & Pipeline Transfer Loss
- Sampling and Quality Control
- Blending Equipment

### Module III - Tank Product Properties

- Tank Farm Operations, Planning and Scheduling
- Physical, Chemical & Hazardous Properties of Stored Products
- Effects of Physical & Chemical Properties on Choice of Storage
- Safety and Risk
- Ignition Sources
- Fire Detection, Firefighting & Protection

## Module IV - Terminal Management Challenges

- Comingled Stock & Un-pumpable
- Terminal Inventory Control & Inter Tank Transfers
- Changing Tanks Service
- Tank Calibration / Recalibration
- Instrumentation, Flow and Level Measurement & Spill and Overfill Control
- Level Alarms / Independent Level Alarms
- Product Blending and Product Failures Release Detection, Response, Reporting and Investigation
- Tank Troubleshooting Case Study



### Inaugural Address

**Dr R K Elangovan**

Director General, DGFASLI

Ministry of Labour and Employment, Govt of India

He is B. E (Mech), M. Tech (Machine Design) and Ph. D (Industrial Safety).

He has worked as a factory Inspector for seventeen years in Government of Tamil Nadu enforcing safety and health regulatory measures. He is presently holding the stature of Director General, DGFASLI, Min. of Labour & Employment, Govt. of India and has published numerous Technical Papers and Research Studies on Occupational Safety & Health in Industries.



### Theme Technical Speaker

**Mr. Vedprakash Singh**

Mr. Vedprakash Singh, Technical Director-IITC has over 25 years of extensive industrial

experience in Chemicals/Petrochemicals, Oil Refineries, Oil & Gas upstream (onshore & offshore) and EPC as HSE expert, he has focused his career to pursue his passion for Process Safety / Technical Safety / Design HSE/ Fire Engineering, Commissioning/Decommissioning & Occupational Safety. Exposure to mature systems through working in multinationals like Reliance/ GACL/ M&M/ TSIL/ Cairn/ ADNOC/ ENOC/ Penspen/ OMV/ Eni, and Qatar Petroleum. Mr. Singh brings the best of the best from industry practices.

The diverse experience Mr. Singh has accumulated through his career makes him an impactful professional able to drive performance and make significant leaps in any Process Safety / Technical Safety/ Occupational Safety program. Having worked in a wide range of the biggest companies and different cultures from Kazakhstan, to the Middle East and South West Africa (Ghana) he has demonstrated the ability to integrate and effectively orchestrate work with a variety of cultural groups.

Mr. Singh has managed and led a wide range of projects from FEED, Detailed Design, Construction through the full operations lifecycle and operated facilities from oil & gas to complex, upstream, petrochemicals. He has leveraged his vision for excellence and adopted advanced tools to optimize risk management, budgetary considerations and improve operability driving results for high reliability organizations around the world. His assignments have been in Kazakhstan, Qatar, Dubai, Abu Dhabi, Ghana, Bahrain, and India in the oil and gas sector. Mr. Singh has worked on facilities like Oil & Gas upstream / Utilities / Poly Propylene / Ethylene / Ethylene PVC/Chlorine / EDC-VCM/ Refinery/ and Power plants.

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Technical Associate

