

TRAINING TITLE

PRODUCT STORAGE, LOADING AND TRANSPORT (PRODUCTS) – BASIC

Training Duration

5 day

Training Venue and Dates

Ref. No. PE129	Product Storage, Loading and Transport (Products) - Basic	5	06-10 Oct 2025	\$5,500	DUBAI, UAE
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In any of the 4 or 5-star hotels. The exact venue will be informed later.

Training Fees

- \$5,500 per participant for Public Training includes Materials/Handouts, tea/coffee breaks, refreshments & Lunch

Training Certificate

Define Management Consultants Certificate of course completion will be issued to all attendees.

TRAINING DESCRIPTION

In the oil and gas industry, the transportation and storage of refined petroleum products are crucial operations that ensure the steady supply of products from production facilities to consumers. The efficient and safe handling of these products, including storage, loading, and transportation, requires specialized knowledge, equipment, and adherence to stringent safety and environmental standards.

The "Product Storage, Loading, and Transport (Products) – Basic" course is a 5-day training program designed to provide participants with a fundamental understanding of the systems and operations involved in the storage, loading, and transportation of refined oil and gas products. This course is ideal for individuals who are new to the oil and gas industry or those seeking to build foundational knowledge in the area of product logistics.

TRAINING OBJECTIVES

By the end of the course, participants will be able to understand

1. Equip you with the foundational knowledge needed to understand the basic principles of storage, loading, and transport systems used in the oil and gas industry.
2. Provide insights into the different types of storage and transport methods, and how to select and maintain them to meet operational goals.

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3. Help you understand and implement safety measures in product handling, ensuring compliance with local and international safety regulations.
4. Enable you to recognize and address operational challenges, such as flow control, equipment failures, and logistical inefficiencies.
5. Prepare you for hands-on activities, such as troubleshooting loading systems and designing simple storage solutions.

WHO SHOULD ATTEND?

This course is ideal for:

- **Engineers and technicians** who are involved in the design, operation, or maintenance of product storage, loading, and transport systems.
- **Project managers** working on infrastructure projects related to product handling and logistics.
- **Safety and compliance officers** who ensure that product storage and transportation activities meet regulatory and safety standards.
- **Logistics and operations professionals** involved in the management of the oil and gas supply chain, from storage to final delivery.
- **Newcomers to the oil and gas industry** seeking a foundational understanding of product storage, loading, and transport operations.

TRAINING METHODOLOGY

A highly interactive combination of lectures and discussion sessions will be managed to maximize the amount and quality of information and knowledge transfer. The sessions will start by raising the most relevant questions and motivating everybody to find the right answers. You will also be encouraged to raise your own questions and to share in the development of the right answers using your own analysis and experiences. Tests of multiple-choice type will be made available on daily basis to examine the effectiveness of delivering the course.

Very useful Course Materials will be given. www.definetraining.com

- 30% Lectures
- 30% Workshops and work presentation
- 20% Group Work& Practical Exercises
- 20% Videos& General Discussions

COURSE PROGRAM:

Day 1: Introduction to Product Storage and Transport

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- Overview of the Oil and Gas Product Supply Chain
- Types of Products Handled: Refined Petroleum Products, Chemicals, and LPG
- General Principles of Product Storage, Loading, and Transportation
- Importance of Safety in Product Handling: Risk Assessment and Hazard Identification
- Basic Equipment and Infrastructure: Tanks, Terminals, Pipelines, and Transport Vehicles
- Health, Safety, and Environmental (HSE) Considerations in Storage and Transport

Day 2: Product Storage Systems

- Types of Storage Facilities: Tank Farms, Bulk Storage, and Pressure Vessels
- Design of Storage Tanks: Materials, Sizing, and Safety Features
- Fixed vs. Floating Roof Tanks
- Key Considerations in Storage Design: Safety, Capacity, and Venting Systems
- Monitoring and Maintenance of Storage Facilities
- Case Study: Design of a Basic Storage Facility for Refined Products

Day 3: Product Loading Systems

- Introduction to Loading Systems: Marine, Truck, Rail, and Pipeline Loading
- Loading Arm Design and Operation
- Design of Loading Terminals: Bulk and Tanker Terminals
- Operational Considerations in Product Loading: Flow Rates, Pumping Systems, and Flow Control
- Safety Measures: Spill Prevention, Emergency Shutdown Systems, and Overfill Protection
- Case Study: Truck and Rail Loading Systems for Refined Products

Day 4: Product Transport Systems

- Overview of Transport Methods: Pipelines, Rail, Marine, and Road
- Pipeline Transport: Design, Pump Stations, and Pressure Control
- Shipping Transport: Tankers and Barge Operations
- Rail and Truck Transport: Operational Challenges and Safety Protocols
- Monitoring and Control Systems for Product Transport
- Safety and Environmental Considerations in Product Transport
- Case Study: Design and Operation of a Pipeline Transport System for Refined Products

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Day 5: Regulatory Compliance, Safety, and Optimization

- **Regulatory Standards: API, ISO, and Local Regulations for Product Storage and Transport**
- **Environmental Protection: Spill Prevention, Waste Management, and Emissions Control**
- **Safety Procedures: Leak Detection, Emergency Response, and Hazardous Material Handling**
- **Optimizing Storage and Transport Operations: Efficiency, Cost-Effectiveness, and Risk Management**
- **New Technologies in Storage and Transport: Automation, Monitoring, and Remote Control Systems**
- **Designing a Simple Product Storage and Transport System**
- **Course Wrap-Up: Key Learnings, Q&A, and Certification**

NOTE:

Pre-& Post Tests will be conducted.

Case Studies, Group Exercises, Group Discussions, Last Day reviews, and assessments will be carried out.



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