The Operational Dynamics of Petroleum Depots

How to Manage Product Sampling, Transfer, and Storage in Petroleum Depots Safely

Introduction

Personnel involved in petroleum depot operations who wish to learn more about efficient depot management, storage, design standards, depot automation, and warehouse control should take the Course N Carry training course.

When it comes to developing and implementing an internal management model along the business chain that has to deal with depot operations management, most organisations with growth aspirations have committed a significant amount of time and resources to plan their expansion strategies.

This training session on Course N Carry will emphasise:

- Examine the various custody transfer guidelines that are currently in use.
- Analyse the process used to track and manage production losses.
- Recognise the dynamics of the distribution and storage of oil products.
- Find out about the environmental, health, and safety elements of depot operations.

Objectives

This Course N Carry training programme has been carefully crafted to address performance challenges in the various corporate value chain segments. It does this by introducing fresh ideas that will challenge preconceived notions about how to solve complicated operational problems in depots.

After completing this Course N Carry training course, you will have the ability to:

- Recognising the different roles that petroleum depots play
- Recognising the guiding principles of depot operations
- Accounting, control, and taking of stocks
- Receivables and transfers of products, custody transfers
- Tank farm management, calibration, and operations

Training Methodology

We use multiple methods to equip students with the skills and knowledge. This includes online lectures, self-paced assignments, and exploration of case studies. Further, to

help simplify the understanding of the principles, we use visual presentation. We also conduct role-playing sessions to help students apply the knowledge to the real world.

Organizational impacts

The company gains an advantage in the expanding Storage Tank industry sector by better understanding the course's impact on the global energy supply chain. This is made possible by the course The Operational Dynamics of Petroleum Depots. The company will specifically gain from having qualified staff with improved skills in managing depot operations, storage, design standards, depot automation, and warehouse control, among other areas.

Personal Imapct

- Increased comprehension and capacity for critical analysis of the techniques used in this sector
- Learn about emerging technologies and how they affect operations at petroleum depots.
- Develop your knowledge of proper tank gauging and custody transfer.
- Improvement of technical abilities and comprehension to understand and perform storage depot equipment selection
- Understanding the environmental, commercial, and technical facets of the hydrocarbon storage industry

Who should attend?

Lectures with PowerPoint slideshows, case study analysis, group discussions, and workshops are beneficial to participants. By exchanging ideas and experiences, participants are also encouraged to learn from professionals and their colleagues on the programme. We give special attention to group work where participants discuss real-world scenarios as a means of learning.

A wide range of professionals can benefit from this Course N Carry training course, but the following are particularly noteworthy:

- Supervisors and Managers of Depot Personnel
- Everyone with an interest in depot operations or depot management, including facility operators, engineers, and site managers.

Course Outline

Day 1

Design Guidelines for Depots

- Storage Standards for Depot Designs
- Equipment Selection for Depots
- Layouts and Profiles for Storage
- Techniques for Storing
- Planning for Emergency Preparedness and Prevention of Fires

Day 2

Product Transfers and Receipts

- Part and Products; Loading and Receipts Marine Acknowledgments
- Amount / Cargo Quality
- Standard Filling and Draining Pump Performance / Rate Flow Rate
- Sampling and Tank Gauging
- Monitoring of Sampling During Discharge
- Control of Product Quality

Day 3

Methods

- Techniques for Tank Adjustment
- Tools and Measurements
- Calibration of Flow
- Trends in the Adjustment
- Calibration Test Rig Types
- Techniques for Tank Gauging

Day 4

Transfer of Custody

- Transfer of Custody Stocks Accounting and Control
- Monitoring and regulating production losses, depot automation, leak detection using
- API 1130, and tank management systems
- Leaks in Physical Form Control Valves Performance Metered

Day 5

HSE & Efficient Depot Operations Risk Associated with Flammable Products Management Hot Spots

- Explosive Limits of Flammability - LEL and UEL Ignition Sources Fires
- Temperature Sparks that Self-Ignite and Static Electricity
- Products Pyrophoric
- The System of Work Permits
- Operations in Confined Space
- Testing in the Atmosphere
- Insufficient Oxygen
- The Hazards of Ammonia

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