



## Loading Arms Types Maintenance and Troubleshooting



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## Introduction:

Through this training, we aim for the professionals to polish their knowledge and skills through learning the essential maintenance and inspection activities performed on the loading arm the with tailored chemical loading solutions such as: Minimal Product Loss, Increased Durability, Maximum Safety and Ultimate Flexibility.

## Course Objectives:

Through this course, we aim the participants to:

- Know and understand the various types of marine loading arms
- Prepare, test and safely connect hoses, loading arms and vapor return lines
- Know the forces and stresses acting on the manifold and the vessel during cargo transfer operations
- Know and use the various types of marine quick connect and disconnect couplings
- Know the emergency release systems for marine terminals
- Care and maintenance of loading arms, couplings and emergency release systems
- Understand the operation of the inert gas systems
- Know and establish the procedures for the prevention of pollution of the seas, in accordance with the provisions of the MARPOL 73/78, as amended and application of any local laws

## Targeted Groups:

- Terminal Managers
- Operation staff
- Export operators, loading master
- Oil and gas operators related to export systems

## Course Outlines:

- Solutions for fuel loading in the tanks suitable with our requirements
- Suitable range of temperature and pressure that the Petro-loading needs
- Modern instruments used in making the process of loading
- Petroleum top loading arms for other parts of the world
- Problems arising during the process and their solutions
- Various options available to fine tune top loading
- Different ways of petroleum bottom loading
- The steps of maintenance for tanks and reservoir of loading
- The effect or troubleshooting and its importance