MERCURY

Loading Arms Types Maintenance and Troubleshooting

21 - 25 Feb 2027
Kuala Lumpur (Malaysia)

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Loading Arms Types Maintenance and Troubleshooting

Ref.: 15480_1000963 **Date:** 21 - 25 Feb 2027 **Location:** Kuala Lumpur (Malaysia) **Fees:** 4900 **Euro**

Introduction:

This Loading Arms Types Maintenance and Troubleshooting course will help professionals polish their knowledge and skills by learning the essential maintenance and inspection activities performed on the loading arm with tailored chemical loading solutions, such as minimal product loss, Increased Durability, Maximum Safety, and Ultimate Flexibility.

Proper maintenance routines are crucial for the operational integrity of loading arm systems within the oil and gas sector. Participants will gain insights into the best practices for the upkeep and inspection of loading arms to prevent malfunctions and ensure seamless operation during the transfer of petroleum products.

In this Loading Arms Types Maintenance and Troubleshooting training, individuals will be equipped with the skills to perform thorough loading arm maintenance and troubleshoot common issues effectively, maximizing productivity and minimizing risks associated with oil and gas loading operations.

Course Objectives:

At the end of this Loading Arms Types Maintenance and Troubleshooting course, participants will able to:

- Understand the various types of loading arms, including marine loading arms, and their applications within the oil and gas industry.
- Prepare, test, and safely connect hoses, loading arms, and vapor return lines to ensure operational efficiency and safety.
- Know the forces and stresses acting on the manifold and the vessel during cargo transfer operations, particularly when dealing with oil-loading arms.
- Understand the various marine quick connect and disconnect couplings' roles in front-end loading in the oil and gas industry.
- Know the emergency release systems for marine terminals, enhancing the safety measures in the operational environment.
- Care and maintenance of loading arms, couplings, and emergency release systems for prolonged service life and reliability.
- Understanding the operation of inert gas systems is essential for ensuring safety in the oil and gas sector.
- Establish the procedures for preventing sea pollution by the provisions of MARPOL 73/78, as amended, and apply any local laws.

Targeted Groups:

- Terminal Managers who oversee the operation and maintenance of loading arm systems.
- Operation staff engaged in daily activities involving loading arm oil and gas operations.
- Export operators and loading masters who require a deep understanding of types of loading arms and their troubleshooting.
- Oil and gas operators related to export systems must ensure compliance with industry

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standards.

Targeted Competencies:

Participants competencies in this Loading Arms Types Maintenance and Troubleshooting training will:

- Solutions for fuel loading in the tanks that meet our requirements and the nuances of working with different oil loading arm systems are available.
- Petro-loading requires a suitable range of temperature and pressure, considering the oil and gas industry requirements.
- Modern instruments are used in the loading process, focusing on the nuances of front-end loading oil and gas.
- Discusses the top loading arms of petroleum for other parts of the world and how differences in regional practices can affect the use and maintenance of load.
- The problems that arise during the process and their solutions focus on troubleshooting techniques in the arm oil and gas sector.
- Various options are available to fine-tune top loading to optimize performance and safety in the industry.
- Different ways of petroleum bottom loading and how to manage them effectively.
- Maintenance for tanks and reservoir loading is done to ensure the longevity and reliability of these systems.
- The effect of troubleshooting and its importance, focusing on maintaining consistent operation and minimizing downtime in oil loading arm systems.

Course Content:

Unit 1: Introduction to Loading Arms in Oil & Gas:

- Overview of loading arm systems in the oil and gas industry.
- Types of loading arms: Marine, truck, rail, and pipeline.
- Key components of loading arms and their functions.
- Safety standards and regulations in loading arm operations.
- The importance of regular maintenance in preventing operational failures.

Unit 2: Maintenance Procedures for Loading Arms:

- Routine inspection and maintenance schedules.
- Lubrication and cleaning of moving parts.
- Identifying and replacing worn-out components.
- Detailed steps for hydraulic system maintenance.
- Electrical systems maintenance and troubleshooting.
- Best practices for maintaining swivel joints and seals.
- Maintenance documentation and record-keeping.

Unit 3: Troubleshooting Common Loading Arm Issues:

- Identifying common loading arm problems.
- Troubleshooting hydraulic system failures.
- Addressing electrical malfunctions in loading arms.
- Dealing with mechanical wear and tear.
- Resolving issues with swivel joints and couplers.
- Steps to take in case of emergency shutdowns.

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- Tools and equipment for effective troubleshooting.

Unit 4: Advanced Diagnostic Techniques:

- Use of diagnostic tools for assessing loading arm conditions.
- Non-destructive testing methods for structural integrity.
- Vibration analysis for early detection of issues.
- Hydraulic pressure testing and monitoring.
- Electrical system diagnostics using multimeters.
- Advanced sensor technologies for real-time monitoring.
- Interpreting diagnostic data for maintenance planning.

Unit 5: Safety Considerations in Maintenance and Troubleshooting:

- Understanding the safety risks associated with loading arms.
- Personal protective equipment PPE for maintenance personnel.
- Safe handling of hazardous materials during maintenance.
- Emergency response procedures for loading arm incidents.
- Lockout/tagout procedures during troubleshooting.
- Ensuring environmental compliance during maintenance activities.

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Registration form on the :
Loading Arms Types Maintenance and Troubleshooting

code: 15480 **From:** 21 - 25 Feb 2027 **Venue:** Kuala Lumpur (Malaysia) **Fees:** 4900 **Euro**

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