



Kerosene Treatment Unit (Merox) Operations

Course Introduction:

The Kerosene Treatment Unit, commonly known as the Merox process, is a critical operation in the petrochemical industry designed to improve the quality of kerosene by removing impurities and enhancing its properties. This process involves treating kerosene with a mixture of caustic soda and air to eliminate sulfur compounds, resulting in a cleaner, more stable product that meets regulatory standards and market demands. Understanding the principles and operational practices associated with the Merox process is essential for professionals working in refining and petrochemical sectors.

This 5-day theoretical training course, "Kerosene Treatment Unit (Merox) Operations," aims to provide participants with a comprehensive overview of the Merox process, including its components, operational parameters, and safety considerations. Throughout the course, participants will explore the fundamental concepts of kerosene treatment, the operational sequence of the Merox unit, and the best practices for monitoring and maintaining system performance. By analyzing case studies and industry standards, attendees will gain valuable insights into optimizing operations and addressing challenges specific to kerosene treatment.

Course Objectives:

By the end of the program, participants will be able to:

- Understand the fundamental principles of the Merox process and kerosene treatment.
- Learn about the key components and functions of a Kerosene Treatment Unit.
- Explore operational parameters and best practices for effective Merox operations.
- Analyze safety considerations and risk management strategies in kerosene treatment.
- Familiarize participants with troubleshooting techniques for common operational issues.

Who Should Attend?

This course is intended for Process engineers and operators in refining and petrochemical industries, Quality assurance and compliance professionals, Safety officers involved in chemical processing and Project managers overseeing kerosene treatment operations

Course Outline:

Day 1: Introduction to Kerosene Treatment

- Overview of kerosene and its industrial applications
- Introduction to the Merox process and its significance in refining
- Key definitions and concepts related to kerosene treatment

Day 2: Components of the Merox Process

- Detailed examination of the Kerosene Treatment Unit components
- Understanding the roles of reactors, separators, and other key equipment
- Process flow diagrams (PFDs) and piping and instrumentation diagrams (P&IDs)

Day 3: Operational Parameters and Best Practices

- Overview of critical operational parameters in the Merox process
- Best practices for starting up, running, and shutting down the unit
- Monitoring and control strategies for optimizing performance

Day 4: Safety Considerations in Kerosene Treatment

- Identification of safety risks associated with kerosene treatment operations
- Emergency response procedures and risk mitigation strategies
- Regulatory requirements and industry standards for safety

Day 5: Troubleshooting Techniques for Merox Operations

- Common issues encountered in the Merox process and their impacts
- Systematic approaches to troubleshooting and problem resolution
- Case studies on successful troubleshooting in kerosene treatment operations

Course Methodology:

A variety of methodologies will be used during the course that includes:

- (30%) Based on Case Studies
- (30%) Techniques
- (30%) Role Play
- (10%) Concepts
- Pre-test and Post-test
- Variety of Learning Methods
- Lectures
- Case Studies and Self Questionnaires
- Group Work

Course Fees:

To be advice as per course location. This rate includes participant's manual, Hands-Outs, buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Course Certificate:

International Center for Training & Development (ICTD) will award an internationally recognized certificate(s) for each delegate on completion of training.

Course Timings:

Daily Course Timings:

08:00 - 08:20	Morning Coffee / Tea
08:20 - 10:00	First Session
10:00 - 10:20	Coffee / Tea / Snacks
10:20 - 12:20	Second Session
12:20 - 13:30	Lunch Break & Prayer Break
13:30 - 15:00	Last Session