



Metering and Custody Transfer System operations

Course Introduction:

Metering and custody transfer systems are essential components in the oil and gas industry, ensuring accurate measurement and transfer of hydrocarbons and other fluids between various parties. These systems play a key role in revenue assurance, regulatory compliance, and operational efficiency. As the industry increasingly focuses on precision and accountability, understanding the principles and technologies behind metering and custody transfer is critical for professionals involved in production, transportation, and marketing of petroleum products. This 5-day theoretical training course, "Metering and Custody Transfer System Operations," is designed to provide participants with a comprehensive overview of these vital systems.

Throughout the course, participants will delve into the various types of metering technologies, the operational principles governing custody transfer, and the regulatory frameworks that shape these processes. Emphasis will be placed on best practices for ensuring accuracy, reliability, and compliance in metering operations. By analyzing case studies and industry standards, attendees will gain valuable insights into the challenges and solutions associated with metering and custody transfer systems, preparing them for effective decision-making in their roles.

Course Objectives:

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

- Understand the fundamental principles of metering and custody transfer systems in the oil and gas industry.
- Learn about different types of metering technologies and their applications.
- Explore the operational procedures and best practices for custody transfer.
- Analyze regulatory requirements and standards governing metering operations.
- Familiarize participants with troubleshooting techniques and performance optimization in metering systems.

Who Should Attend?

This course is intended for Metering engineers and technicians in the oil and gas industry, Production and operations personnel involved in custody transfer, Quality assurance and compliance professionals and Project managers overseeing metering system implementation.

Course Outline:

Day 1: Introduction to Metering and Custody Transfer

- Overview of metering and custody transfer systems and their significance in the oil and gas industry
- Key definitions and concepts related to fluid measurement and transfer
- Historical development and advancements in metering technologies

Day 2: Types of Metering Technologies

- Examination of various metering technologies: mechanical, electronic, and ultrasonic flow meters
- Understanding the principles of operation for different types of meters
- Case studies demonstrating the application of metering technologies in various scenarios

Day 3: Custody Transfer Procedures

- Overview of custody transfer processes and their importance in revenue assurance
- Detailed exploration of operational procedures involved in custody transfer
- Best practices for ensuring accuracy and reliability during transfer operations

Day 4: Regulatory Framework and Standards

- Analysis of regulatory requirements and standards governing metering and custody transfer
- Understanding the role of industry organizations and compliance in metering operations
- Implications of non-compliance and strategies for maintaining adherence to regulations

Day 5: Troubleshooting and Performance Optimization

- Common challenges and issues encountered in metering and custody transfer systems
- Techniques for troubleshooting and resolving metering discrepancies
- Strategies for performance optimization and continuous improvement in metering 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