MAWA EVENTS

Address: No. 857, Block A2. Leisure Commerce Square - No 9., 46150 Petaling Jaya, Selangor, Malaysia

Phone: +601116373203 | **Email:** info@mawaevents.net

FLOW MEASUREMENT AND CUSTODY TRANSFER

"Ensuring accurate, reliable, and compliant measurement of hydrocarbons in custody transfer operations."

Schedule

Date	Venue	Fees
14 – 15 Oct 2026	Online	USD 700 per delegate

► **Available delivery methods:** Face-to-Face & Online Training

Introduction

Accurate flow measurement and custody transfer are critical components in the oil and gas industry, ensuring proper accounting of hydrocarbons, regulatory compliance, and operational efficiency. Errors in measurement can lead to significant financial losses, disputes between parties, and safety risks. Professionals responsible for custody transfer must have a clear understanding of flow metering technologies, standards, and best practices.

This 2-day intensive online training equips participants with practical knowledge of flow measurement principles, custody transfer procedures, and calibration techniques. Participants will gain insights into metering technologies, measurement uncertainties, and industry standards to ensure precise, reliable, and legally defensible measurement of hydrocarbons during custody transfer.

Objectives

By the end of this course, participants will be able to:

- Understand the principles of flow measurement for oil and gas.
- Apply industry-standard procedures for custody transfer.
- Select appropriate flow meters and instrumentation for specific applications.
- Conduct calibration, verification, and troubleshooting of flow measurement systems.
- Ensure compliance with international standards and minimize measurement errors.

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Why Attend

- Gain practical skills in flow measurement and custody transfer operations.
- Improve accuracy, reliability, and repeatability of hydrocarbon measurements.
- Reduce financial and legal risks associated with measurement errors.
- Understand best practices in metering, calibration, and verification.
- Enhance professional competence in oil and gas asset management.

Target Audience

This program is designed for:

- Oil and gas engineers and technical staff.
- Operations, production, and pipeline personnel.
- Measurement and instrumentation engineers.
- Asset managers and custody transfer specialists.
- Supervisors and technical managers responsible for hydrocarbon accounting.

Individual Benefits

Key competencies that will be developed include:

- Ability to apply flow measurement techniques accurately.
- Understanding of custody transfer procedures and standards.
- Skills in meter selection, calibration, and verification.
- Enhanced troubleshooting and problem-solving capabilities.
- Increased confidence in regulatory compliance and reporting.

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Improved accuracy and reliability of hydrocarbon measurement.
- Reduced disputes and losses in custody transfer operations.
- Compliance with industry and legal standards.
- Stronger asset management and operational integrity.
- Enhanced efficiency and effectiveness in production and pipeline operations.

Instructional Methodology

The course follows a blended online learning approach combining theory with practice:

- Strategy Briefings – Fundamentals of flow measurement, metering technologies, and custody transfer principles.
- Case Studies – Examples of measurement errors, disputes, and corrective actions.
- Interactive Discussions – Problem-solving scenarios and application of standards.
- Practical Exercises – Flow meter selection, calibration, and verification simulations.
- Tools – Reference charts, calibration checklists, and custody transfer templates.

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Course Outline

Detailed 2-Day Course Outline

Training Hours: 9:00 AM – 4:00 PM Daily Format: 3–4 Learning Modules | Coffee breaks as scheduled | Lunch Break: 01:00 – 02:00

Day 1: Fundamentals of Flow Measurement

Module 1: Introduction to Flow Measurement (09:00 – 10:30)

- Overview of flow measurement principles
- Types of flow meters (turbine, ultrasonic, Coriolis, differential pressure)
- Factors affecting measurement accuracy

Module 2: Industry Standards and Custody Transfer Procedures (10:45 – 12:15)

- API, ISO, and other relevant standards
- Legal and regulatory requirements
- Documentation and reporting procedures

Module 3: Meter Selection and Installation (01:00 – 02:30)

- Selection criteria for flow meters
- Proper installation and commissioning
- Minimizing measurement errors

Module 4: Calibration and Verification (02:45 – 04:00)

- Calibration techniques and traceability
- Verification and routine checks
- Day 1 review and discussion

Day 2: Advanced Custody Transfer and Troubleshooting

Module 5: Advanced Custody Transfer Techniques (09:00 – 10:30)

- Real-time monitoring and automated systems
- Handling multiphase flows and challenging applications
- Data integrity and reporting

Module 6: Troubleshooting Flow Measurement Systems (10:45 – 12:15)

- Common measurement problems and root causes
- Corrective actions and preventive measures
- Instrumentation diagnostics

Module 7: Accuracy, Uncertainty, and Performance Optimization (01:00 – 02:30)

- Measurement uncertainty analysis
- Improving accuracy and repeatability
- Performance optimization of flow measurement systems

Module 8: Case Studies, Best Practices, and Course Review (02:45 – 04:00)

- Review of real-world custody transfer scenarios
- Lessons learned and industry best practices
- Key takeaways, action planning, and Q&A

Certification

Participants will receive a Certificate of Completion in Flow Measurement and Custody Transfer, validating their expertise in hydrocarbon measurement, custody transfer procedures, and compliance with international standards.

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Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
- **Industry-Leading Faculty:** Courses delivered by seasoned professionals with hands-on experience.
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