



MICROSOFT TRAINING

Fiscal Metering Systems Course

Master Fiscal Metering Systems principles and operations. Develop expertise in accurate measurement and data analysis for critical energy applications.

DURATION

8 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

-
- Globally Recognized Certification
 - Expert-Led Hands-On Training
 - Flexible Scheduling

Computer Pride | 1st Floor, ICEA Building, Kenyatta Avenue, Nairobi | www.computer-pride.co.ke

COURSE OVERVIEW

This intermediate-level Fiscal Metering Systems Course, powered by Microsoft technologies, offers an intensive 8-hour deep dive into the critical aspects of accurate and compliant measurement in the energy sector. Participants will gain a comprehensive understanding of the principles, technologies, and regulatory requirements governing fiscal metering, which is essential for revenue generation, loss control, and equitable custody transfer in oil, gas, and petrochemical industries. The curriculum is designed to equip professionals with practical skills to manage, analyze, and report on high-integrity measurement data. Beyond traditional metering concepts, this course uniquely leverages Microsoft's robust cloud and data analytics ecosystem to enhance data acquisition, processing, and reporting. You will explore how Azure IoT, Azure Data Lake, and Power BI can be integrated with fiscal metering infrastructure to create resilient, scalable, and insightful data management solutions. This integration transforms raw measurement data into actionable intelligence, enabling more efficient operations, better compliance, and improved decision-making. The professional benefits include developing expertise in a highly specialized and in-demand field, making you a valuable asset in organizations dealing with large-scale energy transactions. By mastering both the technical aspects of fiscal metering and the application of cutting-edge Microsoft data platforms, you will be prepared to optimize measurement systems, ensure data integrity, and drive operational excellence, ultimately contributing to significant cost savings and revenue protection.

Duration	8 hours
Level	Intermediate
Vendor	Microsoft

COURSE CURRICULUM

01 Module 1: Fundamentals of Fiscal Metering

- Introduction to Fiscal and Custody Transfer Metering
- Importance and Impact of Accurate Measurement
- Key Industry Standards and Regulatory Bodies (API, ISO, OIML)
- Metering Philosophy and System Design Overview

02 Module 2: Fiscal Metering Technologies and Instrumentation

- Types of Flow Meters (Turbine, Ultrasonic, Coriolis, Orifice)
- Ancillary Instrumentation (Densitometers, Pressure/Temperature Transmitters)
- Proving Systems and Calibration Techniques
- Flow Computers and their Functions

03 Module 3: Data Acquisition and Microsoft Integration

- SCADA and Control System Overview for Metering
- Data Historization and Archiving Best Practices
- Leveraging Azure IoT Hub for Metering Data Ingress
- Introduction to Azure Data Lake for Scalable Data Storage

04 Module 4: Volume Correction, Allocation, and Reporting

- Fluid Properties and Equations of State (AGA 8, API 11.1)
- Measurement Uncertainty Analysis
- Allocation Principles and Methods
- Creating Fiscal Metering Reports and Dashboards with Microsoft Power BI

Module 5: Operational Excellence and System Maintenance

- 05**
- Installation Best Practices and Commissioning Procedures
 - Routine Maintenance, Calibration, and Verification
 - Troubleshooting Common Metering System Issues
 - Data Integrity, Security, and Audit Trails in Metering Systems

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Custody Transfer Measurement Engineer**
- > **Industrial IoT Solutions Architect (Energy Sector)**
- > **Oil & Gas Data Integrity Analyst**

FREQUENTLY ASKED QUESTIONS

Q: What prior experience or technical knowledge is recommended before enrolling in this Fiscal Metering Systems Course?

This intermediate course is best suited for professionals with a foundational understanding of industrial instrumentation, process control systems, or basic oil and gas operations. While not strictly mandatory, familiarity with data concepts or prior exposure to Microsoft Azure fundamentals will be beneficial for grasping the integrated technology aspects.

Q: How does this course specifically leverage Microsoft technologies to enhance fiscal metering data management and analysis?

This course uniquely integrates Microsoft's cloud platform by demonstrating how Azure IoT Hub can securely ingest real-time metering data, how Azure Data Lake can provide scalable and cost-effective storage for historical data, and how Power BI can be used to create interactive dashboards for compliance reporting, anomaly detection, and operational insights, moving beyond traditional SCADA and historization systems.

Q: What specific competencies related to industry compliance and standards will I gain from this Fiscal Metering Systems Course?

Upon completion, you will be proficient in applying key industry standards such as API (American Petroleum Institute) and ISO (International Organization for Standardization) guidelines to fiscal metering operations. You will understand how to calculate measurement uncertainty, perform meter proving, and generate reports that meet regulatory requirements, ensuring that custody transfer and revenue accounting are accurate and defensible.

ABOUT COMPUTER PRIDE



East Africa's Premier IT Training Center

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading

technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

15+

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READY TO ENROL?

Take the next step in your technology career.

Location

1st Flr, ICEA Building
Kenyatta Ave, Nairobi

Email

info@computer-pride.co.ke

Phone

+254 705 900 900

www.computer-pride.co.ke