OTHER PETEX COURSES

Completion and Workover
Elementary Drilling—Onshore
Elementary Drilling—Offshore
Fundamentals of Petroleum Measurement
Intermediate Petroleum Measurement
Advanced Petroleum Measurement
Hydraulics for Pipeline Engineers
Pipeline Technology
Pipeline Construction Inspection—new blended course
LNG: Basics of Liquefied Natural Gas
Natural Gas Measurement—Fundamentals and Meter Station Design/Application/Inspection
Natural Gas Measurement—Electronic Flow Measurement
Natural Gas Measurement—Sampling and Analysis
Petroleum Fundamentals
The Rig School™—Introduction to Offshore Operations
Valves and Actuators—Operation and Maintenance
ValvePro® Certified Valve Maintenance Technician

Additional Custom Courses and Seminars also available

Mass Measurement Course
(Direct and Inferred)

- Mass Measurement of Hydrocarbon Liquids

ENROLL NOW!
For a course schedule or to enroll, visit petex.utexas.edu/our_courses

Need on-site training?
PETEX courses can be customized to meet your company’s needs. Please call PETEX at 1.281.397.2440.

Enrollment Information
For additional information, contact—
PETEX Houston Training Center
The University of Texas at Austin
4702 North Sam Houston Parkway West, Suite 800
Houston, TX 77086
Tel: 800.687.7052
or 281.397.2440
FAX: 281.397.2441
Email: htc@www.utexas.edu

January, 2016
Mass Measurement of Hydrocarbon Fluids

3.3 CEUs

Length: 4.5 Days

This course may assist in meeting requirements for DOT Operator Certification.

Teaches theory, installation, operation, and proving practices of mass measurement of light hydrocarbon fluids including natural gas liquids and other liquids. Provides instruction in meter proving and calculation of meter factors for meters in high vapor pressure service (e.g., propane or mixed NGLs). Provides instruction and simulation/demonstration of densitometer proving by pycnometer and pycnometer calibration. Demonstrates proper procedures and emphasizes safe practices. Provides instruction in the calculation of volumes at base conditions of single-grade light hydrocarbons from measured NGL mixes. Emphasis placed upon proper procedures and safe practices.

Course Content

- Fundamentals of measurement
- Static and dynamic measurement
- Proving a flow meter in high vapor pressure liquids
- Proving a density meter high vapor pressure liquids
- Flow meter prover calibration by waterdraw or gravimetric methods
- Pycnometer calibration by the water weigh method
- Mass measurement by turbine meter and densitometer or by Coriolis flow meter
- Sampling and sample analysis
- Calculations for volume at base conditions from mass quantities and analysis of composite sample

Recommended For

Measurement technicians and engineers with 1 to 5 years of experience; and those who witness or audit measurement.

Included with Course

- Catered lunch daily; beverages and snacks provided
- Course materials including instructor presentations
- Field and classroom exercises

Focuses on—

DIRECT MASS MEASUREMENT
- Coriolis Meter for Mass
- Gas Chromatograph for Components

INDIRECT MASS MEASUREMENT
- Turbine Meter for Volume
- Densitometer for Density
- Gas Chromatograph for Components