

# SMITH METER PIPELINE/PRODUCTION EQUIPMENT SERVICE TRAINING SCHOOL: AGENDA

## DAY 1: Monday, October 23, 2023

8:00am – 8:30am	Welcome and Introduction
8:30am – 9:00am	Why Meter?
9:00am – 9:30am	Measurement Concepts
9:30am – 10:00am	Smith Meter Inc. Overview
10:00am – 10:15pm	Break
10:15am – 10:45am	Line Accessories <ul style="list-style-type: none"><li>• Strainers, Air Eliminators</li><li>• Deaerators</li><li>• PetroGuard System</li></ul>
10:45am – 12:00pm	Pulse Transmitters <ul style="list-style-type: none"><li>• P.D Meter Transmitters   Models: E, PEXP, PPST, UPT</li><li>• Turbine Meter Pick-ups and Preamplifiers</li></ul>
12:00pm – 1:30pm	Lunch
1:30pm – 2:15pm	Prime 4 Meter
2:15pm – 3:00pm	Turbine Meters
3:00pm – 3:15pm	Break
3:15pm – 4:00pm	MVTM Multi-Viscosity Meter
4:00pm – 5:00pm	Adjourn

## DAY 2: Tuesday, October 24, 2023

8:00am – 9:00am	Introduction to Mass Meters
9:00am – 10:00am	Temperature Compensation (ATC)
10:00am – 10:15am	Break
10:15am – 11:15am	PD Meter Design
11:15am – 11:45am	PD Meter Accuracy Theory <ul style="list-style-type: none"><li>• Linearity and Repeatability</li><li>• Pressure Drop</li><li>• Friction and Clearances</li><li>• Viscosity and Torque</li></ul>
11:45am – 1:00pm	Lunch
1:00pm – 3:00pm	PD Meter Teardown and Reassembly
3:00pm – 3:15pm	Break
3:15pm – 5:00pm	PD Meter Teardown and Reassembly - <i>Continued</i>

## DAY 3: Wednesday, October 25, 2023

8:00am – 10:00am	Introduction to MicroFlow
10:00am – 10:15am	Break
10:15am – 11:45am	Shop Practical <ul style="list-style-type: none"><li>• Troubleshooting Meters and Accessories</li></ul>
11:45am – 1:00pm	Break
1:00pm – 4:00pm	Shop Practical <ul style="list-style-type: none"><li>• Packing Glands</li><li>• Gear Clusters</li><li>• Lid Rebuilds</li><li>• Inner Mech Change-outs</li><li>• Counters</li></ul>
4:00pm – 5:00pm	Implementing a Preventative Maintenance Program - <i>Discussion</i>

#### **DAY 4: Thursday, October 26, 2023**

8:00am – 9:00am	Introduction to Ultrasonic Meters
9:00am – 10:00am	Provers and Prover Principles
10:00am – 10:15am	Break
10:15am – 12:00pm	Prover Truck Practical <ul style="list-style-type: none"><li>• Prover Truck Overview</li><li>• Proving Practices</li><li>• Proving Integrity</li><li>• Proving Reports</li></ul>
12:00pm	Certification Awards – <i>School Adjourns</i>
Afternoon	All participants are welcome to stay for <ul style="list-style-type: none"><li>• Facility Tour</li><li>• Additional Hands-on Training</li><li>• Any other metering questions/concerns</li></ul>

#### ***Please note the following are required to participate in the course:***

- *CSA Safety Footwear*
- *CSA Safety Glasses (Will be available on site)*