

SMITH METER PIPELINE/PRODUCTION EQUIPMENT SERVICE TRAINING SCHOOL: AGENDA

DAY 1: Monday, October 21, 2024

8:30am	Welcome and Introduction
9:00am	Why Meter?
9:15am	Measurement Concepts
9:45am	Break
10:00am	Pipeline accessories <ul style="list-style-type: none">• Strainers• Deaerators• Air eliminators
10:30am	Pulse Transmitters <ul style="list-style-type: none">• P.D Meter Transmitters Models: E, UPT Turbine Meter Pick-ups and Preamplifiers
11:00am	<ul style="list-style-type: none">• Prime 4 Meter
11:45am	Lunch
12:45pm	Introduction to Coriolis meters
2:15pm	Break
2:30pm	Turbine meters
3:30pm	Turbine meter teardown
5:00pm	Adjourn

DAY 2: Tuesday, October 22, 2024

8:30am	P D Meter Design
9:45am	Break
10:00am	P D Meter Accuracy Theory <ul style="list-style-type: none">• Linearity & Repeatability• Pressure Drop• Friction & Clearances• Viscosity & Torque
10:45am	P D Meter Teardown & Reassembly <ul style="list-style-type: none">• Small Meter• Inner Mechanism Removal & Install
11:45am	Lunch
12:45pm	Class Disassembly & Reassembly of Inner Mechanism – <ul style="list-style-type: none">• Small Mechanism
2:15pm	Break
2:30pm	Assembly Of 3 Bladed Inner Mechanism - <ul style="list-style-type: none">• Class to Assemble 3 Bladed Inner Mechanism in 2-3 Small Groups
5:00pm	Adjourn

DAY 3: Wednesday, October 23, 2024

8:30am	P D Meter Stack Accessories
9:30am	Shop Practical <ul style="list-style-type: none">- Troubleshooting Meters & Accessories
10:30am	Break
10:45am	Shop Practical <ul style="list-style-type: none">• Packing Glands• Gear Clusters• Lid Rebuilds• Counters• Transmitters• Housing Inspections
11:45am	Lunch

12:45pm	Continue Shop Practical
1:45pm	Implementing A Preventative Maintenance Program
2:45pm	Break
3:00pm	MTC Mag Drive Upgrades
3:30pm	Selecting Proper Accessories <ul style="list-style-type: none"> • Transmitter • Deriving K-Factor • Counter Selection
4:00pm	Discussion
4:15pm	Adjourn

DAY 4: Thursday, October 24, 2024

8:30am	Introduction to Ultrasonic Meters
9:00	Provers and Prover Principles
10:00am	Break
10:15am	Questions Regarding Prover Maintenance <ul style="list-style-type: none"> • Prover Ball Inspection and Sizing • Switch Replacement / Repairs • Water Draw Preparation / Issues • Spare Parts Recommendations
11:30am	Open Discussion
12:00pm	Certificate Awards <ul style="list-style-type: none"> • School Adjourns
Afternoon	All Participants Are Welcome to Stay For <ul style="list-style-type: none"> • Facility Tour • Additional Hands-On Training • Any Other Metering Questions/Concerns

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

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