



Ethanol Maintenance 101

Learn practical, hands-on techniques for increased productivity

June 20-21, 2019 • October 24-25, 2019



Day One: Instrumentation

8:00 AM - 4:30 PM

Flow Measurement

- Magnetic Flow Meter
- Vortex Flow Meter
- Coriolis Flow Meter
- Differential Pressure Flow Meter
 - Measurement Theory
 - Operational Performance
 - Applications
 - Troubleshooting/Hands on

Level Measurement

- Differential Pressure/Head Pressure
- Magnetic Gauge/Magneto-Strictive
- Ultra-Sonic
- Radar
 - Measurement Theory
 - Operational Performance
 - Applications
 - Troubleshooting/Hands on

Temperature Measurement

- RTD (Resistance Temperature Devices)
- Thermocouple
 - Measurement Theory
 - Operational Performance
 - Applications
 - Troubleshooting/Hands on

Electro-Chemical Measurement

- pH
- Conductivity
 - Measurement Theory
 - Operational Performance
 - Applications
 - Troubleshooting/Hands on



Pressure Measurement

- Gauge Pressure
- Absolute Pressure/Vacuum
 - Measurement Theory
 - Operational Performance
 - Applications
 - Troubleshooting/Hands on

Fee:

\$1,350 per participant.
Fee includes lodging and meals.
Payment information required to complete registration.

Location:

BioFuels Automation University
Training Center
151 Cheshire Lane North
Plymouth, Minnesota



Space is Limited **Register Today!**

Contact Tamma Whealy at 888.870.FUEL(3835) or tamma.whealy@swansonflo.com



151 Cheshire Ln. N, Suite #800, Plymouth, MN 55441
888-870-FUEL(3835) | www.BioFuelsAutomation.com



Day Two: Valves

8:00 AM - 12:30 PM

Automated On/Off Valves

- Types
- Applications
- Maintenance
- Troubleshooting/Hands on

Valve Monitors

- Types
- Applications
- Maintenance
- Troubleshooting/Hands on

Control Valves

- Types
- Applications
- Maintenance
- Troubleshooting/Hands on

Positioners

- Types
- Applications
- Maintenance
- Troubleshooting/Hands on

Communication Protocols

- HART
- Foundation Fieldbus
- Profibus
- ASi
- DeviceNet

Shop Tools—Hands On

- Configurators
- Calibrators

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