



TECHNICAL EXPERTISE

KEEPING YOU AHEAD OF THE CURVE

PSTU PUMP STATION UNIVERSITY

POWERED BY JACK TYLER ENGINEERING, INC.

www.pumpstationuniversity.com

HANDS-ON TRAINING

Jack Tyler Engineering's Pump Station University

COURSE CURRICULUM

Currently, we are offering Two Days of hands-on training that teaches the following:

• **Day 1 Includes three main sections.**

- *Section 1: Introduction to Pump Stations*

- Safety: Fall Protection and Confined Space Entry.
- Basic overview of pump station components
- How to read a pump curve and communicate using pump terminology
- The differences between different types of pump impellers
- The different types of valves used in pump stations
- Troubleshooting

- *Section 2: Mechanical*

- Safety: Operating the pump in the field
- How to conduct a pump start up
- Running the pump in the test pit and learning how each component interacts within the system
- How to break down a pump for inspection
- How to troubleshoot the pump in the field
- How to know when to bring the pump in for repair
- How a portable bypass pump works and how to properly set up a portable pump to bypass a pump station.
- Troubleshooting



- *Section 3: Electrical*

- Safety: Troubleshooting the control panel in the field
- Basic understanding of all components found inside a control panel and what the symbol is for each component on a wiring diagram
- How to read a wiring diagram
- How to use a multimeter
- We have three demo panels for hands-on training where your operator will learn:
 - How to wire up your level control and set your level control in a wet well.
 - How to troubleshoot the control panel using a multi-meter and reading the wiring diagram.
 - How to safely remove and install components in a panel.

Day 2 Includes:

- *4-hour Immersive Experience in Mechanical Pump Inspection, Troubleshooting, and Repair*
 - Your operator will fully break down a pump and will learn what each component of the pump is and what role it plays. This includes how to inspect for wear, check factory clearances, read the pump bill of materials, and identify the parts breakdown to highlight what parts are worn and what parts need to be replaced. Your operator will then install a basic repair kit into the pump, rebuild and repair the pump, and test the pump in our test pit. All of this will be done with the full oversight of a PSU-authorized repair technician.
- *4-hour Immersive Experience in Electrical Controls Troubleshooting*
 - Your operator will be immersed in the world of pump controls, components, and logic, and will learn every aspect of a pump control panel. Your tech will be able to safely work inside a live demo panel and troubleshoot simulated alarms with his or her multi-meter. Operators will also learn all types of level control, how to install each one, and how to set level control in a wet well—all under the supervision of a PSU-authorized controls technician.

To register, please contact Stephen Eoff at 501-804-7559 or steoff@jteng.com. Investment per attendee is \$600. Jack Tyler Engineering will invoice Municipality upon class completion. We ask for a purchase order number upon registration. PSU Class Size is Limited to 12 Operators per Class. Each operator will receive 16 credit hours towards his or her license. Operators will be broken into small groups of 4 to give them more hands-on experience when troubleshooting. Please let us know if you have any questions or desire any additional information. Each participant will be given a course workbook. We ask that each participant bring his or her own multimeter and wear steel-toed shoes. Safety glasses will be provided. Class times are 8-4 each day and lunch will be provided both days. All participants are responsible for their own hotel arrangements if arriving from out of town. Classes are held at Jack Tyler Engineering, 6301 S. University Ave, Little Rock, AR 72209.

Thank you for your interest in Pump Station University.

Sincerely,

Stephen

Stephen Tyler Eoff
President

Jack Tyler Engineering, Inc. & Pump Station University Founder
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