

# Hands-On Pump Workshop at PSI Process's Shop

*Lunch will be provided by PSI*

**Course objective:** This hands-on course teaches technicians practical skills for maintaining pumps. Participants will learn to interpret data plates, understand pump components, read wiring diagrams, and perform tear-downs and rebuilds on pumps. Through a mix of classroom instruction and shop practice, this course equips attendees with the knowledge to confidently maintain and troubleshoot submersible pumps.

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**8:00am – Start (Please arrive by 7:45am) \*\* Safety Shoes and Proper Workshop Attire is Required\*\***

**Welcome/Safety Speech**

**Classroom Review**

- Data Plate & What It Means
- Internals of a Pump
- Submersible Cable
- Wiring Diagrams
- Flygt 3085/3102 Exploded View

**Building Tour (20 minutes)**

**Shop Time**

- Tear Down & Rebuild Flygt 3085
- Tear Down & Rebuild Flygt 3102

**Lunch (45 minutes)**

- PSI will provide lunch

**Classroom Review**

- Internals of the Pump w/Cooling Jacket
- Flygt 3153 Exploded View
- Flygt Cable Entry
- Impeller Adjustment
- Wiring Connections for Flygt Mid-Range Pumps

**Shop Time**

- Tear Down & Rebuild Flygt 3153

**Questions**

**3:30pm - Conclusion and paperwork**

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**Instructors:**

**Dan Sarao - Shop Manager**

Dan Sarao's career in the mechanical and service industry began on May 4, 1992, when he started as a bench mechanic working on pumps. With over three decades of hands-on experience, Dan has developed a deep understanding of mechanical systems, troubleshooting, and repair techniques that have made him an invaluable asset to his team.

Over the years, Dan's role has evolved from working directly on equipment to taking on greater leadership responsibilities. Today, he serves as the Shop Manager, overseeing both the diesel and electric shops. In this capacity, Dan is responsible for supervising technicians, ensuring quality control, and maintaining efficient

workflows. His ability to balance technical expertise with managerial skills has played a key role in optimizing shop performance and delivering high-quality service to clients.

Dan's commitment to excellence, strong work ethic, and dedication to his team have earned him the respect of his colleagues and clients alike. His leadership continues to drive the success of both the diesel and electric shops, where his experience and guidance help foster a productive and collaborative environment.

#### **Kyle Kurzawa - Bench Mechanic**

Kyle Kurzawa joined the team on December 16, 2013, as a bench mechanic, where he quickly developed a strong expertise in the repair and maintenance of pumps. With a keen understanding of both electrical and mechanical components, Kyle is highly skilled in diagnosing and servicing a variety of pumps, ensuring they perform at their best.

In his role, Kyle works on a range of pump models, troubleshooting issues, performing repairs, and conducting thorough inspections. His attention to detail, technical knowledge, and ability to solve complex problems have made him an essential member of the team, delivering high-quality service to clients in need of reliable pump systems. Kyle's dedication to his craft and his commitment to ongoing learning ensure that he stays current with industry advancements and best practices.

#### **Accreditation:**

**6.0** Water & Wastewater TCHs, Course Number: 04-112401-30

**5.0** Technical & **1.0** Managerial CPWM Credits, Course Number: DLGS-NJWA-274

#### **Dates and Locations:**

March 13, 2025 – PSI Process Facility, 201 Lincoln Blvd, Middlesex, NJ 08846

**No more than 2 attendees per utility.**

**Please plan to arrive at 7:45 am.**

Registration is required and is available at:

[WWW.NJWATER.ORG](http://WWW.NJWATER.ORG)

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