CEU Evaluation Request

(7 hours – Wastewater O&M)

Class: Vogelsang Rotary Lobe Pump Maintenance & Troubleshooting

Relevancy: Wastewater

Date: July 17, 2024

Location: Canby, OR

Instructor: Rich Owens

Description: This is a one-day course that will provide specific troubleshooting and repair for

equipment in the wastewater treatment system. Specific training will be done partially via classroom setting, and then more practical in a shop environment.

Day 1

8:00-8:15 Introduction to Owens Pump & Equipment and Staff

- Municipalities Introduction.
- OPE Staff Introduction.

8:15-8:45 **How Positive Displacement Pumps Work**

- Vogelsang History & Background
- Operating principles and dynamics of positive displacement pumps.
- Everyday use of positive displacement pumps for wastewater sludges.

8:45-9:15 **Standard Operating Procedures**

- Initial startup and shutdown of the equipment
- Routine monitoring of the equipment
- Offline storage and Safety Precautions.
- Pump Identification

9:15-10:00 Preventative Maintenance & Troubleshooting

- Inspection procedure & PM intervals of each component
- Lubrication Schedules & Checks
- Spare Parts and Special Tools Required for Maintenance
- Removal, repair, disassembly and re-assembly of equipment.
- Torque, calibration and alignment.
- Repair testing.
- Equipment troubleshooting via matrix and local support available.

10:00-10:15 **Break**

10:15-12:00 Live Training – Dismantling the pump for Repair

- Removal of the lobes
- Removal of the wear plates
- Removal of the housing segments
- Removal of the mechanical seals

Day 1 (Continued)

12:00-1:00 Lunch Break (Lunch Provided)

1:00-3:30 Live Training – Dismantling the pump for Repair

- Removal of the lobes
- Removal of the wear plates
- Removal of the housing segments
- Removal of the mechanical seals

3:30-4:45 **Summary & Final Questions**

3:15-4:30 (0.125)Lab Procedures and Compliance

- Proper sampling procedures. DMR recording and reporting.
- Discuss the requisition of supplies, materials and equipment.
- Discuss pertinent federal, state and local laws, codes and regulations.