WATERWASTEWATER electrical maintenance

Water/Wastewater Electrical Maintenance

2-DAY TRAINING

Training Description:

In this program you will learn the basics of electricity such as, what is current, voltage, resistance, and power. Ohm s Law will be discussed along with magnetism. You will learn about multimeters that can measure voltage, resistance, and current, as well as clamp-on ammeters, and capacitor testers. You will then learn about control components such as transducers, capacitors, float switches, relays, alternators, potential relays, and phase monitors. There will be an in-depth look at reading the electrical control drawings used in the water treatment industry.

You will learn about electric power distribution in your facility; three-phase, single-phase, transformers, and generation. Then you will move into a discussion on Electric Motors of all types and troubleshooting these motors. Motors are very simple to troubleshoot and we will show you how to determine if a motor is bad. We will wrap-up with a unique section we have created just for you called Troubleshooting Lift & Pump Stations. You will learn how to troubleshoot float switches, capacitors, phase monitors, alternators, pumps, and potential relays.

Training Benefits:

- Understanding of basic components.
- Better troubleshooting skills.
- Applicable skills available upon return to the workplace.
- Be able to spot hazards and avoid accidents.

Prerequisite: None
Standard Class Size: Up to 20
Program Length: 12 hours
CEU s: 1.2

Training Topics:

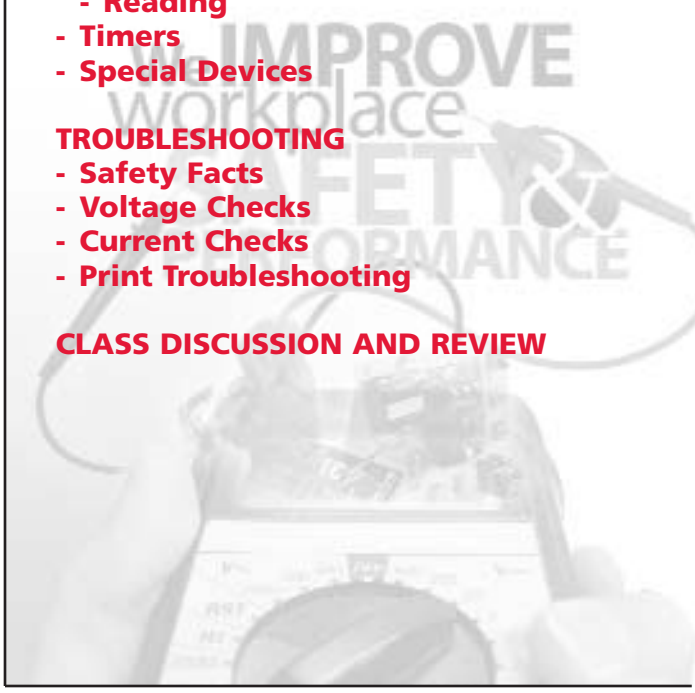
FUNDAMENTALS OF ELECTRICITY
- Current
- Voltage
- Resistance
- Power
- Ohms Law
- AC/DC

MAGNETISM
- Basic Magnetism
- The Solenoid

WASTEWATER ELECTRICAL PRINTS
- Symbols
- Relays
- Motor Starter
- Ladder Diagrams
  - Layout
  - Reading
- Timers
- Special Devices

TROUBLESHOOTING
- Safety Facts
- Voltage Checks
- Current Checks
- Print Troubleshooting

CLASS DISCUSSION AND REVIEW



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