

How to register:

Online:

www.wetrc.org

Fax: *(Registration form available online)*

(253) 288-3475

Mail: *(Registration form available online)*

WETRC

12401 SE 320th Street MS WW

Auburn, WA 98092-3622

Phone:

(800) 562-0858

(253) 288-3369

Payment, Refund, and

Cancellation Policy: Payment or purchase order must be received at the time of registration. **No refund** will be made for cancellations received less than 10 days before the workshops.

CEU Policy: No CEU for partial attendance.

*Meets WA Department of Health
Relevancy Criteria for Water Works
Operator Professional Growth.*

*Meets WA Department of Ecology
Criteria for Wastewater Treatment Plant
Operators and will earn Wastewater
CEU.*

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Washington Environmental Training Center (WETRC)
12401 SE 320th Street
Mail Stop WW
Auburn, WA 98092-3622



WETRC Presents:
Basic Electrical



Who should attend:

Water and wastewater operators and maintenance personnel who want a primary understanding of electrical systems.

Anyone who wishes to improve or update their knowledge of basic electricity, electrical components, electrical measurement, Ohms Law, the Power Law, and electrical troubleshooting will benefit those who plan on taking Process Control and Instrumentation workshop.

Workshop description:

Electricity is the indispensable power source for water and wastewater systems. Participants in this course will learn how electricity is produced and distributed. How to apply fundamental electrical, AC and DC theory to the operation of water and wastewater facility operation and control. Students will build a working series and parallel circuit, including the addition of relay logic. Students will identify and use test meters, learn how to trace electrical systems by identifying and interpreting electrical symbols, and will pick up vital safety and troubleshooting information they can apply immediately. This is a hands on workshop, enrollment is limited.

Topics:

Day 1

- Methods of producing electricity
- Essential electrical theory
- Voltage, Amps, Watts, and resistance

Day 2

- Electrical system components
- Electric Motors
- Symbols and schematics
- Magnetism and motors
- The "all-mighty" relay

Day 3

- Electrical safety
- Lock out tag procedures
- Troubleshooting methods
- Identifying and correcting common failures

Please Notice:

- Please bring a calculator
- Feel free to bring your own multimeter
- Feel free to bring electrical schematics that you would like to discuss.

Apply electrical theory and principles to operating and maintaining your facility. Cut costs by using safe and easy troubleshooting procedures before calling in expensive contractors. Avoid accidents & injuries.

Easy Online Registration!
www.wetrc.org

Registration fee includes:

- ◆ 2.1 CEU
- ◆ Course Notebook
- ◆ Use of meters and all required equipment
- ◆ Morning Refreshments
- ◆ Certificate of Completion

