



# Basic Electrical Understanding for Municipal Systems Operators

## Basic Electrical Understanding for Municipal Systems Operators

May 30-31, 2022 Stratford, PE  
Course limited to 8 attendees

### **COURSE OVERVIEW:**

This course is geared towards the operators of water and wastewater systems. It is meant to give an understanding of electrical power, working safely around it, uses and areas within systems that are influenced by issues with components, and multimeter usage. Safety for operators, systems and public are constant part of this course. Component identification and operation will be covered as well. This is meant as an introduction to AC/DC electricity and how to safely use meters around it. There will be additional courses going further into detail offered in future.

### **COURSE SCHEDULE:**

#### Day 1:

- 09:00 – Introductions
- 09:15 – Electricity; what is it and how is it produced
- 10:00 – Distribution from production to end user
- 10:30 – COFFEE BREAK (supplied)
- 10:45 – Electrical components used for operation and control of equipment
- 12:00 – LUNCH BREAK (supplied)
- 12:30 – Automation components
- 14:00 – Communication systems
- 15:30 – Review of day / Questions

#### Day 2:

- 08:00 – field itinerary for day, explanations, and schedule
- 08:30 – Travel to sites for visual and explanation of components, their purpose and safe methods of testing and troubleshooting. Sites will include some older control panels (15-20 years old) as well as new panels (1-5 years old)
- 12:00 - LUNCH BREAK (supplied at ESC).
- 13:00 – Return to additional site visits
- 15:00 – Return to ESC for wrap up / review
- 15:30 - Course ends

### **PRESENTER:**

Marcel Belanger

Marcel as been working in the electrical trade since 1972.

Moncton CN shops – Diesel Electric Locomotives 1979-85

Started Belanger Electric as contractor 1987-

Started controls and Automation division of Belanger Electric 1999-

SCADA system design, construction, installation, and integration 2005-

Retired from Belanger Electric 2021

### **COURSE LOCATION:**

Stratford Emergency Services Center, 4 Georgetown Road, Stratford PE

**CONTACT INFORMATION:**

Registration can be made by faxing or mailing the registration form on the reverse of this page.  
For further information, Clara Shea at 902-434-8874.

**Basic Electrical Understanding for Municipal Systems Operators**

May 30-31, 2022 Stratford, PE

Name: \_\_\_\_\_

Organization: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City, Province: \_\_\_\_\_ Postal Code: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ Email: \_\_\_\_\_

**Invoices will be sent to the address listed above.**

PO number to be included on the invoice \_\_\_\_\_

**Payment can be made by Visa, Master Card or cheque.**

Card Holder's  
Name \_\_\_\_\_

Credit Card Number \_\_\_\_\_ Expiry \_\_\_\_\_

CVV \_\_\_\_\_

Signature \_\_\_\_\_

Email address for credit card receipt \_\_\_\_\_

**Payment can be made by cheque and is due prior to workshop date.**

Members \$825.00 plus HST 15% = \$948.75  
Non-Members \$850.00 plus HST 15% = \$977.50

**Cheques should be made payable to:  
MPWWA  
C/O Clara Shea, Executive Secretary  
PO Box 28142 Dartmouth, NS B2W 6E2  
Phone 902-434-8874 Fax 902-434-8859**