

2023 Meter School

February 8-10, 2023

with optional

Basic Metering Pre-Conference | February 7-8



**MMUA Training Center
Marshall, MN**

2023 Meter School - At A Glance

About the Pre-Conference

Basic Metering

The Pre-Conference is designed to outline the basics of metering as a foundation for the Meter School Basic/Intermediate class.

The Pre-Conference will cover important topics such as:

- Definitions of common abbreviations
- Blondel's Theorem
- Common metering formulas
- Self-contained metering and troubleshooting



Meter School Overview

Meter School features two course options: Basic/Intermediate and Advanced. Each course offers a combination of classroom and hands-on exercises where participants will work at the metering stations with direct instructor oversight and feedback.

Basic/Intermediate Track

The Basic/Intermediate Class is aimed at personnel with little experience with electric meters. Instruction builds on the Pre-Conference, and will include hands-on training.

Basic/Intermediate Class will cover topics including:

- Why we have electric meters
- Single phase meters & meter forms
- Current transformers & voltage transformers
- Personal protective equipment
- Electric meter safety
- Tools needed for working with electric meters
- Mounting electric meter sockets
- Single phase socket wiring
- Troubleshooting electric installations
- Theft of electric power



Advanced Track

The Advanced Class is intended for those who have working knowledge of meters/metering. The course combines in-depth instruction with practical hands-on exercises that simulate scenarios that could occur at any utility.

Working in small groups, the Advanced Class will focus on troubleshooting a variety of challenging metering setups, then applying load to determine if correctly configured.

Schedule

Pre-Conference

Tuesday, February 7

- 12:00-1:00 Check-in/registration
- 1:15-4:00 Classroom instruction

Wednesday, February 8

- 8:30-12:00 Hands-on training
- 12:00-1:00 Lunch served at Training Center

Meter School

Wednesday, February 8

- 12:00-1:00 Check-in/registration
- 1:00-4:00 Classroom instruction

Thursday, February 9

- 8:30-12:00 Classroom and hands-on training
- 12:00-1:00 Lunch served at Training Center
- 1:00-4:00 Classroom and hands-on training

Friday, February 10

- 8:30-12:00 Classroom and hands-on training

What Do I Need To Bring?

Registrants must bring their own personal protective equipment as well as other items, including:

- Arc flash shield and hard hat
- Safety glasses
- Secondary rubber gloves
- Fire-resistant clothing
- Appropriate footwear
- Volt/amp meter
- Calculator
- Hand tools for meter installation and wiring

Certificate of Achievement

Attendees earn a certificate of achievement for their participation. Watch for an email from MMUA with the certificate, upon completion of the course.

Hotel Information

The AmericInn and EverSpring Inn (formerly Ramada) offer special pricing for participants. Call hotels directly and ask for MMUA's reduced rate when booking.

2023 Meter School and Pre-Conference Registration

4421

February 7-10, 2023

**Location: MMUA Training Center
1004 Michigan Road
Marshall, MN 56258**

Attendee Information

Name: _____

Email: _____

(2) Name: _____

Email: _____

(3) Name: _____

Email: _____

Indicate Selection: *(select one)*

- Pre-Conference only (Basic Metering)
- Meter School only
- BOTH Pre-Conference and Meter School

Meter School Class Selection: *(select one)*

- Basic/Intermediate Class
- Advanced Class

Utility/Company Information

Utility: _____

Primary Contact: _____

Email: _____

Phone: _____

PHOTOGRAPHS: By registering for this school, I, the attendee named above, authorize Minnesota Municipal Utilities Association (MMUA) to photograph me at this event and use such photographs in MMUA marketing materials (both electronic and print). I understand that I will not be paid for giving this consent.

Questions? Contact Theresa Neddermeyer at 763-551-1230.

Registration Fees (before Jan. 10)

Pre-Conference

- Member Rate - \$115 per person
- Non-Member Rate - \$265 per person

Meter School

- Member - \$515 per person
- Non-Member - \$595 per person

Note: Registration fees increase \$50 per person on January 10.

Deadline to register: January 17

Registration Fee \$ _____

x Number of Attendees _____

TOTAL \$ _____

Payment Options

- Check Payable to MMUA
- Bill Utility/Company
- Purchase order _____
- Credit Card*
- Visa MasterCard Discover

*If you would like to pay by credit card, please contact our office at 763-551-1230.

Or if you prefer that we contact you, please indicate the phone number that we should contact you at:

REFUND: MMUA will issue a refund (less \$30 processing fee per person) provided MMUA is notified of the cancellation by 4:30 pm on January 17. Sorry, no refunds after January 17.

Register Today!

- Online: www.mmua.org/event/meter-2023
www.mmua.org/event/meter-preconf-2023
- By mail: MMUA
3131 Fernbrook Lane North, Suite 200
Plymouth, MN 55447-5337
- By email: tneddermeyer@mmua.org

**Register by
January 10 for
best rate**