Underground School

MMUA/APPA/MREA
May 12-15, 2020
MMUA Training Center, Marshall, MN

Minnesota Municipal Utilities Association (MMUA), along with our partners Minnesota Rural Electric Association (MREA) and American Public Power Association (APPA), are pleased to offer the 2020 Underground School.

Keep in mind that no two Underground Schools are the same. The course offering varies from year-to-year.

So even if you attended Underground School in the past, you are sure to benefit from the instruction and idea-sharing that happens in and out of class.
About the MULTI-SESSION CLASS:
This hands-on track is intended for lineworkers of all experience levels. The Multi-Session Class is a rotating class—participants will rotate through each of the six sessions listed below. (The Advanced Class does not rotate.)

Session #1 - 3-Phase Riser Construction
Participants will be instructed on the proper construction of 3-phase risers. Terminating, proper clearances, and B.I.L. will all be discussed and practiced. Procedures for properly grounding the phases will be covered along with underground splices.

Session #2 - Directional Drill Operations
In this session, participants will have the opportunity to gain hands-on experience operating a directional drill, as well as the equipment needed to complete a project. Whether you have experience working with a directional drill or not, this class will be beneficial.

Session #3 - Locating & Fault Finding URD Cables
This session is designed to give individuals a better understanding of locating URD cables. Participants will be able to work with various brands of locators with the most up-to-date styles available. Using different techniques in locating will be taught, along with demonstrating and using an A-frame locator for locating bad secondaries.

Session #4 - Introduction to GIS/GPS Data Collection
As your electric system becomes more complex, it is critical that map changes are quickly updated. This session is designed to demonstrate how to collect and edit data in ESRI Collector for ARC GIS and Map Viewer. Participants will learn the equipment for sub-meter data collection and procedures to collect and edit data on a digital map.

Session #5 - Leaking Transformer Change-out
Being prepared for when an oil spill happens is crucial. This session will cover the information and skills necessary to properly change-out a leaking transformer. After removing the transformer, participants will be taught what needs to be done with the contaminated areas, as well as materials and tools, and what to do if the oil has PCBs.

Session #6 - Proper Cable Pulling Techniques & Benefits
Students will learn how to properly prepare cables for pulling. In this session, instructors will cover topics such as marking cables, lubrication, cable protection, as well as to discuss some techniques to ensure leaving enough tail for termination. Additionally, cable pulling tensions will be discussed, and cable pulling machines will be demonstrated by the equipment representative.

About the ADVANCED CLASS:

Key Considerations When Choosing An AMI Metering System, Greg Calcari, mPower Innovations

There are many proven AMI solutions in today’s marketplace. Learn the key differentiators, which can help you determine which AMI vendor offers the best combination of capabilities and value for your utility. In addition, this session will cover how best to prepare for and to manage an AMI deployment. Topics to be covered include:

- Importance of Establishing Priorities and Objectives
- Develop RFP General Requirements: AMI hardware & software, network infrastructure, data server
- IT/Security Requirements
- Develop RFP Advanced System Requirements: Outage and restoration detection, remote disconnect/reconnect, system integration (SCADA, GIS, OMS, MDM)
- Keys to Successful Implementation
GENERAL SESSIONS
General Sessions are held the first & last day of the School. You must attend all General Sessions to receive full credit.

Tuesday, May 12
Tick and Lyme Disease Prevention
Brian Anderson (aka The Tick Terminator)
Approximately 30,000 cases of lyme disease are reported annually by health professionals to the Centers for Disease Control & Prevention (CDC). Several states—including Minnesota & Wisconsin—fall into the CDC’s “High Incidence” category. Whether you’re working or enjoying the outdoors it’s important to understand facts about ticks, how to avoid or even prevent bites to help minimize the risk of lyme disease.

Understanding the New FMCSA Clearinghouse Rules
Ryan Mihalak, MMUA
The recently implemented Federal Motor Carrier Safety Admin. (FMCSA) Clearinghouse has caused confusion and created some misconceptions for employees. In this session, we’ll go over key points of the Clearinghouse and how it affects you as an CDL employee. Bring your questions as we will help you understand this mandatory program!

Friday, May 15
The Power of a Minute
Scott Meinecke, Iowa Association of Electric Cooperatives
In today’s hectic world we often lose track of time. We are continually trying to multi-task just to keep our heads above water. This program will help you focus on the true value of a minute—as it pertains to getting our brothers and sisters home.

Schedule
May 12 - Tuesday
12:00 pm Registration
1:00 pm Welcome
1:15 pm Tick and Lyme Disease Prevention
2:30 pm Break
2:45 pm Understanding the New FMCSA Clearinghouse Rules
5:00 pm Pizza Reception at The Gambler

May 13 - Wednesday
8:30 am Multi-Session Class/Advanced Class
10:30 am Break
10:45 am Multi-Session Class (rotate)
11:45 am Lunch Served
12:30 pm Multi-Session Class (continued)
1:30 pm Break
1:45 pm Multi-Session Class (rotate)
4:00 pm Wrap Up
5:00 pm Optional activities (at participant’s expense):
- Golf at Savannah Oaks Golf Course
- Sporting Clay at Shooters

May 14 - Thursday
8:30 am Multi-Session Class/Advanced Class
10:30 am Break
10:45 am Multi-Session Class (rotate)
11:45 am Lunch Served
12:30 pm Multi-Session Class (continued)
1:30 pm Break
1:45 pm Multi-Session Class (rotate)
4:00 pm Lineworker Rodeo Mystery Event

May 15 - Friday
8:30 am The Power of a Minute
10:00 am Break
10:15 am Q & A
12:00 pm Wrap-up

What To Bring?
Multi-Session Class:
• Hard Hat
• Safety Glasses
• Work Gloves
• Work Boots
• High Visibility Clothing Appropriate for the Weather
• Rain Gear (just in case)

Advanced Class:
• Note Pad & Pen/Pencil
• Calculator
• Hard Hat
• Safety Glasses
• High Visibility Clothing Appropriate for the Weather
• Appropriate Footwear

Evening Activities (optional)
Tuesday, May 12 - 5:00 pm
Pizza Reception
Everyone registered for the School is invited to our reception at The Gambler. Enjoy free pizza and a beverage!

Wednesday, May 13 - 5:00 pm
Sporting Clay Shoot or Golf
At participant’s expense, we will arrange a fun evening of golf at Savannah Oaks Golf Course or an evening of shooting sporting clays at Shooters Sporting Clays.

Attendance Certificate
Each participant will receive a certificate of attendance indicating the course/hours. Watch for an email from MMUA after the School.

Schedule subject to change.
2020 Underground School

Registration Information

Registration Fees (if registered on/by April 9)

Member - $465 per person
Non-member - $690 per person

Registration fee increases $50 on April 10.
Deadline to register is April 20.

Registration fee includes workshop tuition, materials, two lunches, refreshment breaks, and a certificate of attendance.

Cancellations/Refunds

MMUA will issue a refund (less $30 processing fee per person) provided MMUA is notified of the cancellation by 4:30 pm on April 20, 2020.

QUESTIONS? Please contact Theresa Neddermeyer by email tneddermeyer@mmua.org or call 763-551-1230.

Hotel / Motel Information

AmeriInn by Wyndham and Ramada offer special pricing for participants. Just ask for MMUA’s reduced rate when making your reservation. (Note: Yellow arrow indicates location of MMUA Training Center.)

Hotels

1. AmeriInn Lodge & Suites
   1406 East Lyon Street
   507.537.9424 or 800.834.3444

2. Arbor Inn Bed & Breakfast
   1500 East College Dr
   507.532.9232

3. Quality Inn
   1560 East College Drive
   507.532.3070 or 800.288.5150

4. DeLuX Motel
   516 East Main Street
   507.532.4441

5. Ramada Inn Marshall
   1500 East College Drive
   507.532.3226 or 800.422.0897

6. Sleep Inn
   1300 Neuwada Street
   507.537.0103 or 877.424.6423

7. Super 8 Motel
   1106 East Main Street
   507.537.1461 or 800.800.8000

8. Traveler’s Lodge
   1405 East College Drive
   507.532.5721 800.532.5721
Attendee Information
This form may be used to register multiple people if they are taking the same class.

Name: ___________________________________________________________
Email: ___________________________________________________________

Indicate Preferred Shirt Size (Small - 3XL): ___________________________

(2) Name: ________________________________________________________
Email: ___________________________________________________________

Indicate Preferred Shirt Size (Small - 3XL): ___________________________

(3) Name: ________________________________________________________
Email: ___________________________________________________________

Indicate Preferred Shirt Size (Small - 3XL): ___________________________

Indicate Class Selection (select ONE)

_____ Multi-Session Class (participants rotate through 6 different sessions)
_____ Advanced Class

Utility/Co. _______________________________________________________
Address: ________________________________________________________
Primary Contact: _________________________________________________
Email: ___________________________________________________________
Phone: ___________________________________________________________

PHOTOGRAPHS: By registering for this conference, I, the attendee(s) 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.

Registration Fees (by April 9)
Member Rate - $465 per person
Non-Member Rate - $690 per person

Please note:
• Registration fees increase $50 per person on April 10.
• Registration deadline is April 20.

Registration Fee: $__________

x Number of Attendees: _____

Total Due $__________

Payment Options
☐ Check Payable to MMUA
☐ Bill Utility/Company
  ☐ Purchase order ______________
☐ Credit Card
  ☐ Visa ☐ MasterCard ☐ Discover

Name as it Appears on Card __________________________________________
Cardholder’s Signature _____________________________________________
Credit Card Number _______________________________________________
Expiration Date __________________ Card Code on Back ________________

REFUND: MMUA will issue a refund (less $30 processing fee per person) provided MMUA is notified of the cancellation by 4:30 pm on April 20, 2020. Sorry, no refunds after April 20.