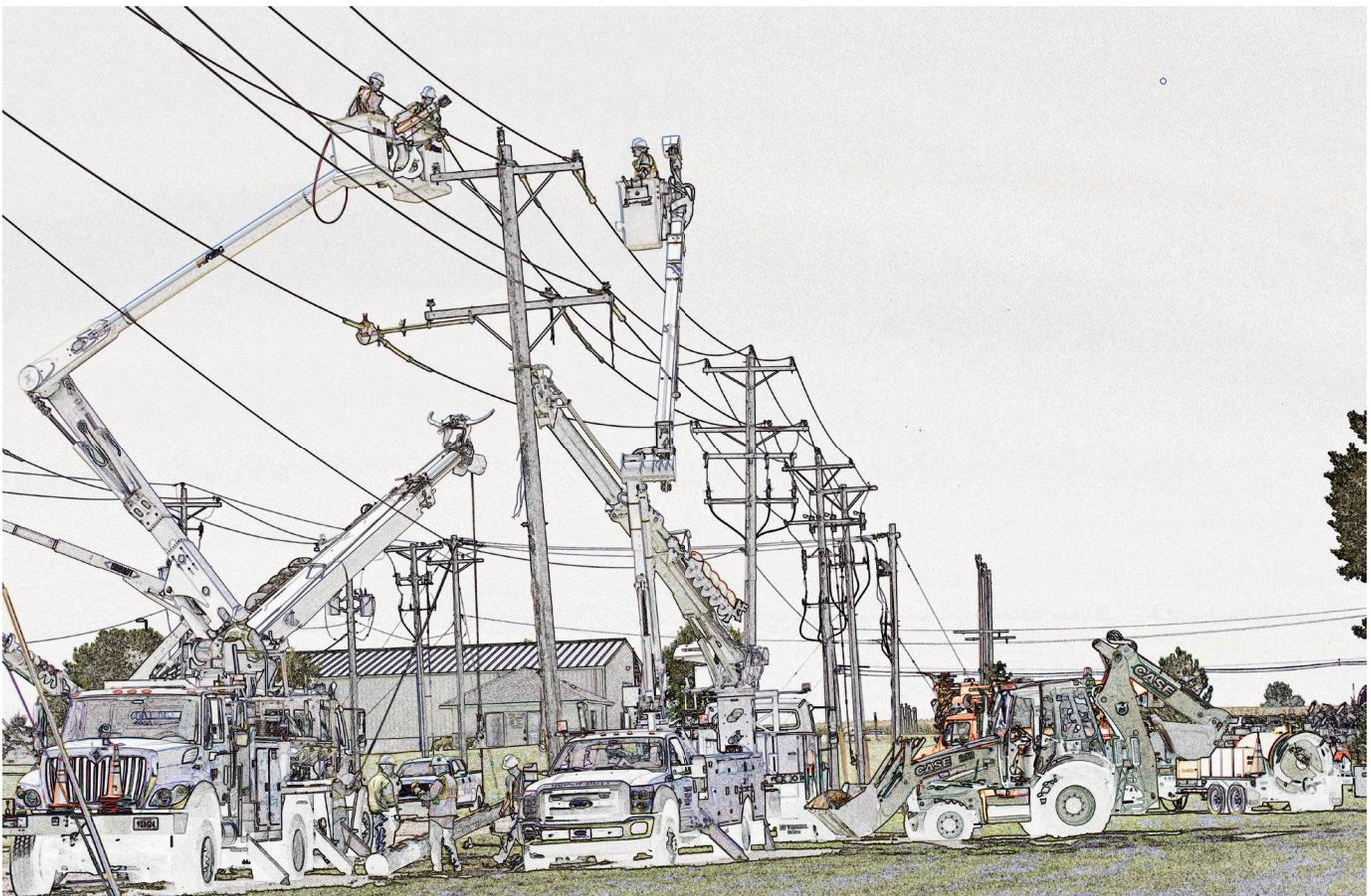


Overhead School

MMUA/APP/ MREA
September 12-15, 2017
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 2017 Overhead School.

Overhead School offers a variety of hands-on training classes and an advanced technical course on Overhead distribution design. In addition to top-notch instructors, we strive to keep class sizes small to maximize participation and learning. Whether you are a seasoned Journeyman looking to stay current or are an Apprentice just starting out—this school offers something for everyone.

2017 Overhead School – Class Overview

Everyone who registers for Overhead School attends the General Sessions. Registrants will need to select either a hands-on class or the advanced class for their course of training. When registering for a hands-on class, please indicate first and second choice class. We make every effort to fulfill a registrant's first choice, whenever possible.

GENERAL SESSIONS

SKYWARN

Speaker: Todd Heitkamp, National Weather Service

This session is designed to educate individuals on typical weather threats in this region. Severe thunderstorms, tornadoes, straight line winds, floods, and winter storms can and do cause millions of dollars in damage and can change lives forever. It is critical that every person understands and knows what to do when hazardous weather threatens.

Topics to be covered include:

- Radar basics
- Types of thunderstorms and “ingredients” for them
- Severe thunderstorm hazards
- Winter hazards and winter storm “ingredients”
- Winter preparation and safety

To Honor the Craft and Inspire Safety—A Widow's Personal Journey

Speaker: Tracy Moore, Highline Hero Foundation

Tracy Moore's life was changed forever in 2002 when her husband Marc, an experienced lineworker, was tragically killed in the line of duty. Tracy is the founder of the Highline Hero Foundation, a non-profit foundation to assist lineworker families during catastrophic times. She is the heart and soul behind Florida's Lineworker Appreciation Day and hopes someday to influence our nation to recognize linemen as first responders. Tracy has an unflinching love for the trade and an even greater passion concerning your safety. She is the sister of a lineman, the wife of a lineman and unfortunately the widow of a lineman. Tracy shares her heart and story not only to honor Marc but to remember the fallen and honor those still serving in the trade that will forever remain the focus of her mission of safety.

2017 Rodeo Recap—Video and Sharing

Speakers: Mike Willetts and Cody Raveling, MMUA

Minnesota was well represented in May at the national Rodeo in San Antonio, with five Teams and six Apprentices competing. Hear from several who participated on what the experience was like and how they plan to prepare for next year's national Rodeo which will be held in Raleigh, North Carolina. Plus we'll recap our first Minnesota Rodeo and talk about our goals for growing this event. You won't want to miss it!

HANDS-ON TRAINING CLASS OPTIONS (Class 1 - 4)

Class 1: Backyard Easements and Construction

Instructors: Todd Keach, Rochester Public Utilities; Doug Enstad, Watertown Municipal Utilities

This class focuses on pole lines in backyard easements, which can be impossible to access with bucket trucks. Participants will practice and demonstrate how to change out a backyard pole. They will also be taught the safe and correct ways of transferring the energized primary and secondary from the old pole to the new. Participants will also experience changing out a transformer using their belt and hooks and different rigging strategies needed for backyard construction. Please bring your climbing gear/fall protection.

This class is entirely hands-on training and will cover:

- Using tailgate forms to identify hazards
- Setting up a safe work zone
- Proper use of PPE
- Demonstration of proper tools and equipment
- How to work efficiently from belt and hooks
- Demonstration of a backyard digger/derrick
- Different rigging techniques

Class 2: Overhead Maintenance

Instructors: Trent Hawkinson, Brainerd Public Utilities; Steve Tiegs, Austin Utilities; Miles Heide, Fairmont Public Utilities; Jeff Becthold, Missouri River Energy Services

Overhead system maintenance is of the utmost importance when it comes to preventing that major outage. This class will challenge the apprentice lineworker up to first step journeyman.

Participants will have the opportunity to practice several different troubleshooting techniques including testing, grounding and proper rubber cover up. A primary goal will be to focus on becoming proficient at system maintenance while adhering to all safe work practices and methods. Please bring your climbing gear/fall protection.



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This class is entirely hands-on training and will cover:

- Strategy to system maintenance
- Review of applicable safety rules
- Using tailgate forms to identify hazards associated with the job
- Setting up a safe work zone
- Proper use of PPE
- Demonstration of proper tools and proper use
- How to work efficiently from belt and hooks
- Proper cover-up procedure
- Proper de-energizing and grounding procedures
- Safe energized gloving procedures from an aerial device

Class goals include:

- Replacing damaged crossarms and equipment
- Completing underground risers
- Repairing damaged overhead conductors
- Changing out energized dead-end bells
- Troubleshooting secondary outage scenarios

Class 3: Mastering Hot Sticking

Instructors: Scott Windham, Santee Cooper; John Giancanelli, Hastings Hot Line Tools & Equipment

This class is an advanced climbing course for the journeyman or higher level apprentice. Learn advanced climbing techniques and safe work methods for distribution



maintenance activities. The course will include classroom training and hands-on field training, so come prepared with your climbing gear/fall protection.

Classroom training will cover topics such as:

- Principles of live line maintenance
- General work rules
- Safety check

- Tailgate discussion
- Rubber gloves
- Personal tools
- Hotline tool check and identification
- First Aid
- Review of voltages
- Appropriate clearances; safe working distances
- Planning
- Check construction standard: reference to specifications manual, safety codes, clearances, etc.
- Importance of tailgate talk; how crew will perform the job
- Care, handling and maintenance of tools and equipment
- Selection of tools and equipment for the proper tool layout
- Tool load ratings
- Rigging principles

Hands-on field training will include:

- Crossarm change, insulator change & transformer change
- Cutting in a dead-end
- Converting from a single to double crossarm

Class 4: Digger Derrick Qualification-Phase One & Phase Two

Instructors: Bruce Westergaard and Shane St. Clair, MMUA

The class will cover Phase One and Phase Two of the Digger Derrick Qualification program. The purpose is to keep employees who operate or work around digger derricks safe and up to date with OSHA crane standards and Rigging requirements. Phase Three operator evaluation will occur at a future date at your city/utility using their equipment. Please bring a *calculator, pencil and notepad* for day one rigging session.

Day One - Rigging standards and principles:

- Proper rigging and control of loads; the Rigging Triangle
- Sling configurations and capacities
- Load weight and center of gravity
- Rigging hardware selection, inspection and use
- Use and inspection of chain, wire and synthetic slings

Day Two - Digger Derrick training and evaluation:

- Training on APPA safety manual hand and verbal signals
- Written & practical performance-based testing with hand and verbal signals
- Digger Derrick setup and operation principles
- Instruction and hands-on evaluation of participants on Digger Derrick: Inspection and setup; lifting a load and maneuvering it guided by hand signals; release, use and stowing of the digging auger

Advanced Lineworker Class

Class 5: Powerline Design and Staking

Instructor: Steve Cook, Rochester Public Utilities

This class is intended for crew leaders, foremen, others in leadership positions or those moving into a leadership role. This class will focus on rebuilding MMUA's training field into a more "real world" scenario. Students will work together to come up with a design that would resemble a city's infrastructure with a variety of different consumers.

The final design that is drawn up will then be used in conjunction with upcoming Underground and Overhead Schools to rebuild the training field.

This class will cover a variety of topics including:

- Different design techniques used in today's world
- Determining proper wire sizing
- MMUA's spec book
- Transformer sizing

MINNESOTA LINEWORKER RODEO—September 12



Join us for this historic event!

All classes of lineworker—from the first-year apprentice to the advanced lineworker—are eligible to participate.

Rodeo includes these individual events:

Apprentice: Hurtman Rescue, 5kV Insulator Change Out, Obstacle Course
Journeyman: Hurtman Rescue, 5kV Insulator Change Out, Obstacle Course

Rodeo Schedule

9:00	Check In
9:45	Opening Ceremony
10-12:30	Rodeo Competition
5:00	Reception/Awards

Trophies/plaques will be awarded for top three finishers in each event and each category. Plus, we will award an overall trophy in the Apprentice and Journeyman categories.

To top off the event, we will hold a reception and present awards to the Rodeo winners at the Gambler. The reception is open to all State Rodeo participants and participants of the Overhead School.

The Minnesota Rodeo is open to any lineworker. Rodeo precedes Overhead School.

NOTE: Separate registration required. No onsite registration. <https://www.mmua.org/event/MN-rodeo-2017>

WHAT TO BRING

ALL CLASSES:

- Hard Hat
- Safety Glasses
- Work Gloves
- Work Boots (no tennis shoes allowed)
- High Visibility Clothing—appropriate for the weather
- Rain Gear (just in case)
- Fall Restraint (if you plan to climb). Required regardless of experience. MMUA has a limited number of fall restraint devices available for the student to use.



ADDITIONAL TO BRING - Advanced Class:

- Note Pad and Pen/Pencil
- Calculator

Overhead School Schedule*

Tuesday, September 12

12:30-1:00	Registration
1:00-4:00	General Session
5:00-7:00	Reception/Rodeo Awards

Wednesday, September 13

8:30-12:00	Hands-On Training Sessions & Advanced Lineworker Session
12:00-1:00	Lunch served at Training Center
1:00-4:00	Hands-On Training Sessions & Advanced Lineworker Session
5:00	Golf or Sporting Clay Shoot (at participant's expense)

Thursday, September 14

8:30-12:00	Hands-On Training Sessions & Advanced Lineworker Session
12:00-1:00	Lunch served at Training Center
1:00-4:00	Hands-On Training Sessions & Advanced Lineworker Session

Friday, September 15

8:30-10:00	General Session: To Honor The Craft and Inspire Safety—A Widow's Personal Journey
10:00-12:00	General Session: 2017 Rodeo Recap—Video & Sharing
12:00	Closing Comments & Wrap Up

**Program is subject to change without notice.*

EVENING ACTIVITIES

Optional activities at participant's expense: Wednesday evening Sporting Clays or Golf. Sign up form will be available during the school.

CERTIFICATE OF ATTENDANCE

Overhead School participants earn 19.5 hours for attendance and a certificate of will be available online. Watch for an email notification from MMUA after the school. Please note: we must have the participant's email address on file in order to send the certificate.

QUESTIONS?

If you have questions please contact Theresa Neddermeyer at MMUA by email tneddermeyer@mmua.org or call 763-551-1230.

2017 Overhead School

Registration Information

Registration Fees (if registered on/by August 14, 2017)

- Member - \$440 per person
- Non-member - \$690 per person

Registration fee increases \$50 on August 15, 2017.

Deadline to register is August 29, 2017.

Registration fee includes workshop tuition, materials, Tuesday evening pizza, Wednesday and Thursday lunch, refreshment breaks, and a certificate of attendance.

Cancellations/Refunds

MMUA will issue a refund (less \$25 processing fee per person) provided MMUA is notified of the cancellation by 4:30 pm on September 1, 2017. Sorry, no refunds issued for cancellations after September 1.

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

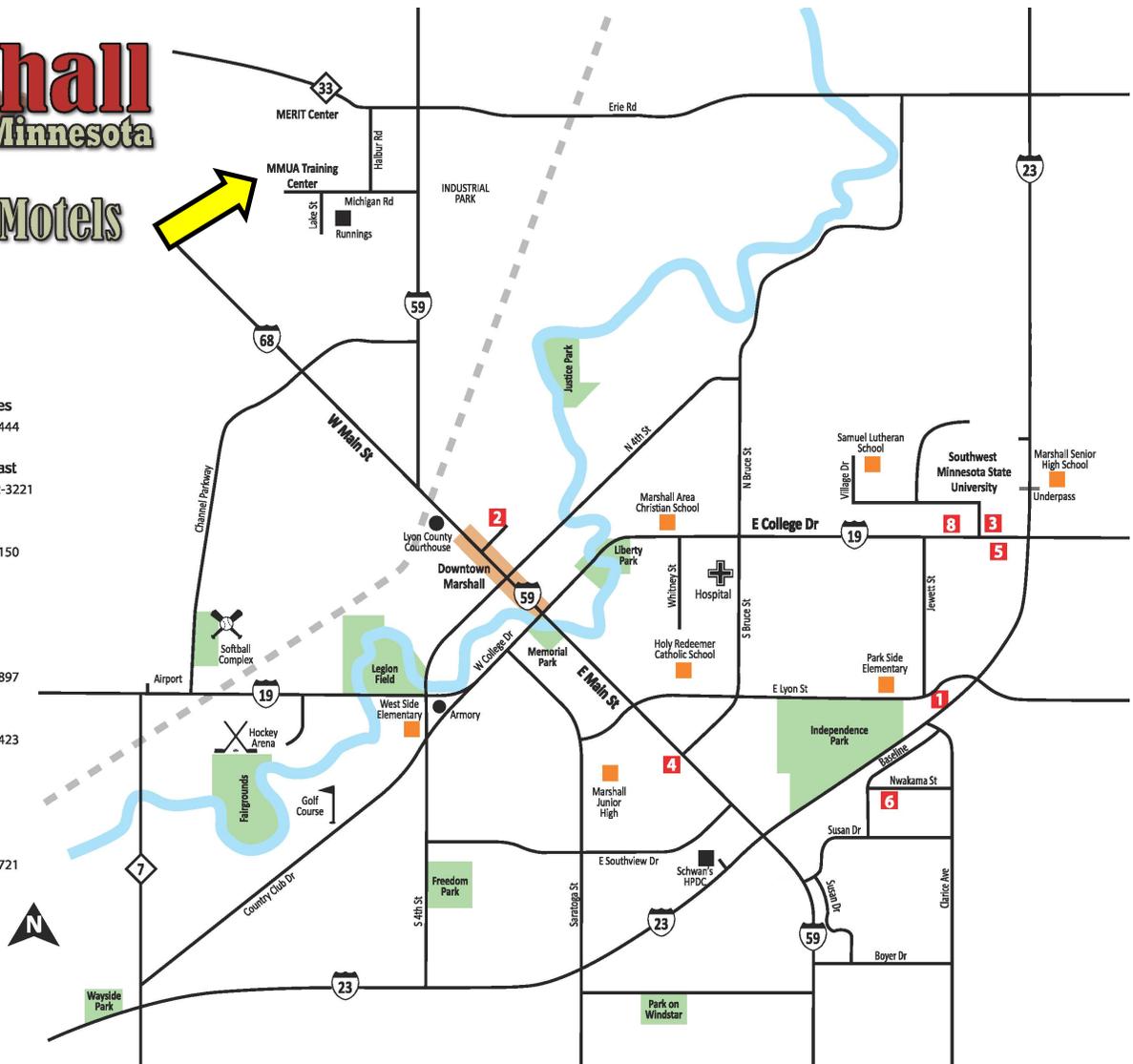
Hotel / Motel Information - Marshall, MN

AmericInn 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. AmericInn Motel & Suites
507-537-9424 or 800-634-3444
2. Arbor Inn Bed & Breakfast
1500 E. College Dr., 507-532-3221
3. Comfort Inn
507-532-3070 or 800-228-5150
4. Delux Motel
507-532-4441
5. Ramada Marshall
507-532-3221 or 800-422-0897
6. Sleep Inn
507-337-0103 or 877-424-6423
8. Traveler's Lodge
507-532-5721 or 800-532-5721



2017 Overhead School Registration Form

4423

September 12-15, 2017 **MMUA Training Center**
1004 Michigan Road
Marshall, MN 56258

Attendee Information

This form may be used to register multiple people if they are taking the same class.

Name: _____

Email: _____

(2) Name: _____

Email: _____

(3) Name: _____

Email: _____

Class Selection (indicate 1st and 2nd choice)

We will make every effort to accommodate your first choice. If you are selecting the Advanced Class, a second choice is not necessary.

_____ Class 1: Backyard Easements and Construction

_____ Class 2: Overhead Maintenance

_____ Class 3: Mastering Hot Sticking

_____ Class 4: Digger Derrick Qualification (Phase One and Two)

ADVANCED CLASS:

_____ Class 5: Powerline Design and Staking

Utility/Co. _____

Address: _____

Primary Contact: _____

Email: _____

Phone: _____

Registration Fees (by Aug. 14, 2017)

- Member Rate - \$440 per person
- Non-Member Rate - \$690 per person

Note: Registration fees increase \$50 per person on August 15. Deadline to register: August 29.

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 \$25 processing fee per person) provided MMUA is notified of the cancellation by 4:30 p.m. on September 1, 2017. Sorry, no refunds after Sept. 1.

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.

Registering
is Easy!

Online: <https://www.mmua.org/event/overhead-2017>

Mail: MMUA
3025 Harbor Lane North, Suite 400
Plymouth, MN 55447-5142

Email: tneddermeyer@mmua.org

Fax: 763-551-0459

**Fees
increase \$50
on August 15**