

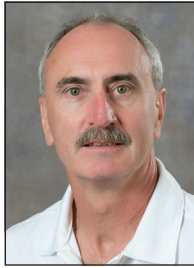
WELCOME!

My name is Ivan Maas, and I am the Building Systems Department Program Director at NDSCS. We are extremely excited about this year's Utility Conference and can't wait to have you join us for this event. We are offering two course tracks this year. Any course this year complements the sessions that were offered last year, making the Electric Utility Workshop a progression-based learning opportunity for you and your colleagues annually. But don't worry if you haven't attended before or in a while, simply pick the option that best provides the next level of learning for you!

We hope you learn a lot and enjoy your time at the 2025 Electric Utility Workshop!

Ivan Maas
Chair, Electric Utility Workshop Committee

Information on this year's instructors can be found at [NDSCS.edu/UtilityWorkshop](https://www.ndscs.edu/UtilityWorkshop)



SCHEDULE

TUESDAY, MARCH 11	WEDNESDAY, MARCH 12	THURSDAY, MARCH 13
11:30 a.m.-1 p.m. Registration and Lunch	8 a.m.-5 p.m. Track Sessions	8 a.m.-12 p.m. Track Sessions
1-5 p.m. Track Sessions	8 a.m.-5 p.m. Vendor Meet and Greet	12 p.m. Lunch
	12-1 p.m. Lunch	
	5 p.m. Banquet	

WEDNESDAY, MARCH 12

VENDOR MEET & GREET

Various vendors will be set up Wednesday in the Barnard Hall. Register for door prizes to be given away at the evening banquet at Prante's.

BANQUET

Don't miss the banquet at Prante's Fine Dining beginning at 5 p.m. Banquet meal will begin at 6 p.m. Drawings for door prizes, must be present to win. Prante's Fine Dining, 1605 11th St. N., Wahpeton.

NDSCS Electric Utility WORKSHOP
North Dakota State College of Science
800 6th Street North, Wahpeton, ND 58076

37th ANNUAL

2025

NDSCS

Electric Utility

Hands-On WORKSHOP

MARCH 11-13,
2025

Wahpeton, N.D.

[NDSCS.edu/UtilityWorkshop](https://www.ndscs.edu/UtilityWorkshop)

Did you attend the 2024 Utility Conference?

Either track offering this year would be a great follow-up course to what you learned last year.

NDSCS
DIVISION FOR WORKFORCE AFFAIRS

TRACK 1

EPZ Grounding

Jason Schraufnagel – Written In Red Training

This is a hands-on experiential course in voltage, current, resistance using series, parallel, and combination circuits. A look at the historical aspects of grounding helps refresh workers to electrical concepts and their application to personal protective grounding.

By utilizing a variety of presentation materials, content delivery appeals to a wider audience of diverse learning styles. This is not an attempt to bluster the learner with electrical engineering principles or bore them to death with a slide deck. PowerPoint training retention is very low; this evidence-based, interactive approach is much more effective. This course is useful for substation, transmission, and distribution workers.

Visit www.writteninredtraining.com/training-courses/epz-grounding to get a summary of the course.

Topics Include:

- Bonding and grounding
- Sources of energization
- Human body resistance to current flow
- Resistance of grounding cables
- Effects of current flow through the human body
- Voltage gradients
- Step, touch and transfer potential
- Establishing an equipotential zone
- Installation of cluster bars
- Five to Stay Alive
- Sacred Circuit
- Inductions
- Worksite grounding vs. working between grounds
- Proper installation, care, and maintenance of ground cables
- Grounding vehicles and equipment in the work area
- Transferred potential rise and substations
- Protective grounding circuits and induction issues
- Use of multiple grounding cables per phase
- Purpose of a three phase short and ground
- Federal OSHA grounding requirements
- Culture and communication

TRACK 2

Hands-On Metering: Beginning to Intermediate

Larry Chapman – Chapman Metering

A "Introduction to Intermediate" version of prior seminars at this conference. Metering basics will be covered followed by basic troubleshooting skills. This class will "assist field personnel in finding metering errors that are adversely affecting billing accuracy and/or personal safety of the technicians involved in maintaining this equipment." This class has several work stations to test different configurations of meter installations.

Participants are asked to bring hand tools, safety glasses, secondary gloves and an ammeter. These materials are needed for hands on work stations.

Hands On Work Stations:

- Single Phase Metering and 3-phase Metering stations. Participants will properly wire the stations.
- Station trouble shooting. Stations will have errors that need repair and testing.

Topics Include:

- Metering of 3-phase services using self-contained and transformer rated meters
- Proper selection of voltage and current transformers
- Transformer burden and sizing of metering conductors
- Single phase transformer rated meters
- Proper grounding
- Meter safety
- AMR metering-changes in metering practices

REGISTRATION

Submit registration and payment information online at NDSCS.edu/UtilityWorkshop

Track Fee \$499

Registration fee includes class tuition, three noon lunches, coffee breaks, sit down banquet and certificate of completion. Lodging accommodations are not included.

A registration confirmation email will be sent upon completed registration. Please keep a copy for your records.

For any registration questions contact Shannon Herman at 701-231-6922 or Shannon.M.Herman@ndscs.edu

CHECK-IN

Check-in begins Tuesday, March 11 at 11:30 a.m. in the Hektner Student Center/Wildcat Express at NDSCS. After check-in, you are invited to lunch in the Hektner Student Center. Your selected class will start at 1 p.m. in Barnard Hall. Campus maps will be provided when you check-in and signage in the buildings will be in place to guide you.

REGISTRATION DEADLINE

February 25, 2025

Pre-registration is required. Class sizes are limited. Registrations will be confirmed by e-mail. The Electric Utility Workshop Committee reserves the right to withdraw any course in which enrollment is not adequate.

REFUND POLICY

A refund, less \$15 processing fee, will be given if we are notified by February 25, 2025. Email a cancellation request to Shannon.M.Herman@ndscs.edu. If you cannot attend, send a co-worker! We are happy to assist you with any questions.

ACCOMMODATIONS

A block of rooms have been reserved until **March 6, 2025** at the following hotels. Mention that you are attending the **Electric Utility Hands-On Workshop**. Please do not double book a room at each hotel, they will still charge you for both rooms even if you do not use both.

AmericInn

2029 210 Dr.
Wahpeton, ND 58075
701-642-8365
www.WyndhamHotels.com/Americinn

Baymont Inn & Suites

1800 210 Dr.
Wahpeton, ND 58075
701-642-5000
www.WyndhamHotels.com/Baymont

Other lodging in the Wahpeton and Breckenridge area.

Travelodge by Wyndham

995 21st Ave. N., Wahpeton, ND 58075
701-484-0378 • www.WyndhamHotels.com/Travelodge

Dakota Magic Casino and Resort

I-29, Exit 1 on the ND / SD border
701-634-3000 • www.DakotaMagic.com

Select Inn

831 U.S. Hwy. 75, Breckenridge, MN 56520
218-643-9201 • www.SelectInnBreckenridge.com

Rodeway Inn

209 13th St. S., Wahpeton, ND 58075
701-642-1115 • www.ChoiceHotels.com/Rodeway-Inn

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