



Joint Utility Training School

<https://www.juts.biz/>

Training Today for Tomorrow

# ***48TH Annual***

***Joint Utility Training School***

***January 16<sup>th</sup>, 17<sup>th</sup>, 18<sup>th</sup> 2024***

***Ramkota Hotel - Sioux Falls, SD***

<https://www.eventbrite.com/e/juts-2024-tickets-753261705037?aff=oddtcreator>

# Joint Utility Training School

Registration Form

FOR PERSONAL OFFICE USE ONLY

REGISTRATION TO BE COMPLETED THROUGH EVENTBRITE

<https://www.eventbrite.com/>

Please fill in the following information.

Name of Registrant (Please Print)

Session  
(Choice)

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All sessions are \$214 + fee/tax total of \$225.13. **\*\*This year\*\*** You can purchase General Session only for \$50. Payment will be made **through Eventbrite** at time of registration. Registration deadline is **January 12<sup>th</sup>, 2023**. If you have questions please reach out to Dean Sigman. Phone: 605-206-2959 – E-mail: [dean.sigman@blackhillscorp.com](mailto:dean.sigman@blackhillscorp.com)

**48th Annual  
Joint Utility Training School  
January 16, 17, 18, 2023  
Ramkota Hotel, Sioux Falls, SD**

**REGISTRATION FEE**

**\$214 per student + fee/tax– PREPAID**

**You can purchase the General Session only for \$50**

**General Session is open to all employees**

**GENERAL SESSION**

- 1. GETTING IT RIGHT... WORKING MORE EFFECTIVELY WITH OTHERS**
- 2. TRANSFORMER CONNECTIONS (BRING LOW VOLTAGE GLOVES)**
- 3.&4. OPERATIONS AND SAFETY**
- 5. RECLOSERS. Will combine with Session 7 Wednesday afternoon for Regulator course**
- 6. PREPARING FOR HOSTILE EVENTS IN THE UTILITY INDUSTRY**
- 7. SUBSTATION/REGULATORS**
- 8. ELECTRICAL CODE CLASS**

Some sessions have limited enrollment, so make your reservations as soon as possible.

Please submit registration through Eventbrite

# SESSIONS PROGRAM INFORMATION

Each session is designed as a 12-hour mini-course. Registration will be for one session only per individual. You will remain in that session for the entire length of the course. Certificates will be sent to your respective company if attendance has been continuous.

To obtain continuing education credit for sessions that qualify, a copy of your completion certificate must be sent to: SD Electrical Commission, 308 S. Pierre St, C/O 1320 E. Sioux Ave. Pierre, SD 57501.

## REGISTRATION

Open via Eventbrite November 17<sup>th</sup>, 2023

**No payments received day of event.**

**On Site check in will be from  
12:00pm-2:00PM**

### **Pre-paid registration will include:**

Vendor Show Tuesday from 5:00 to 7:30 PM w/ social & slider station & potato skins  
Continental Breakfast on Wednesday and Thursday morning provided by Ramkota  
Noon meal on Wednesday in the Exhibit Hall.

## LUNCHEON

Wednesday - January 17, 2024 12:00 noon to 1:00 pm

### **Mini-courses will be:**

Tuesday General Session 2:00 pm-4:00 pm

Wednesday 8:00 am-5:00 pm

Thursday 8:00 am-12:00 noon

# GENERAL SESSION

Washington Room

Tuesday, January 16th

**2:00 pm to 4:00 pm**

## Dan Meers Bio

Dan Meers - Mascot, Motivational Speaker, Author and Family Man. Dan Meers has been KC Wolf, the mascot of the Kansas City Chiefs, for more than 30 years. In 2006 he was selected as the first NFL mascot inducted into the Mascot Hall of Fame. Dan travels throughout the United States and the world entertaining thousands of people both in and out of costume. He has performed in over 40 states and 12 different countries. He is in high demand not only as a mascot but also as a humorous and motivational speaker to audiences of all ages. His enthusiasm, optimism and love for life are contagious and make Dan an inspiration to all those he meets. Be it young or old, executive or blue collar, his audiences walk away with a smile and a renewed spirit to live life to the fullest. Whether you're a Kansas City Chiefs fan or not, you'll enjoy Dan Meers as he shares his unique wit and wisdom about life.



**Presenter:** Dan Meers



**Coordinator:** Terry Ebright

# SESSION 1

CONFERENCE ROOM 3

## GETTING IT RIGHT WORKING MORE EFFECTIVELY WITH OTHERS

### General Session

Tuesday January 16th, 2:00 pm – 4:00 pm

Wednesday, 8:00 am - 5:00 pm

Thursday, 8:00 am - 12:00 noon

### Getting it Right...Working More Effectively with Others

We work with managers, team members, customers, and others...and then we go home. Many of us find stressful situations and frustration at home or work affecting people in the rest of life. The difficulty of working with others and the challenges of keeping things on an even keel at home and work are difficult for many of us.

Everyone is different. We all have some stress from work and from the problems of living. Trying to build a solid and satisfying workplace that matches your needs at home is a challenge that won't go away. This program will help each participant "get a handle on this." We start by helping understand more about ourselves so we can know more about why people are the way they are and some of the things we can do to make work a good place and to keep work and home from interfering with each other.

This is a discussion class and the participants will determine how lightly or deeply we address each of these topics. We will answer questions and address YOUR issues as we work our way through the three important topics listed below. Our goal for the program is to help each participant leave JUTS and return to work and home with added skills that help make things work out in a balanced way. By growing in some of the basic skills we use every day, we can have a positive impact on all the parts of our life.

#### Communication

- ~Understanding expectations and communicating them to others.*
- ~How to say the things that need to be said without making more problems.*
- ~Building more effective relationship at work and at home by better communicating.*
- ~How to improve relationships that have gone wrong.*

#### Personal Management Skills

- ~Managing the stress of life and work—finding a good balance*
- ~Dealing with the stress of customer service and team members*

#### Emotional Intelligence

- ~How to deal with difficult people to build teamwork*
- ~Helping others to grow professionally*
- ~Addressing things with assertiveness instead of being passive.*



Jim Kellar has provided consulting and training resources for businesses and organizations for 20 years. Through Kellar Training, Jim helps organizations design and implement sustainable solutions

Kellar provides training and coaching in such areas as Change, Performance Management, Teambuilding, Mentoring, and Customer Service. Helping develop and implement strategies to maintain a productive workforce, provide for succession, and find bottom line success is the ultimate goal of his work with organizations.

In the last few years, as the economy has declined, Jim has worked with senior managers as a trainer and a coach. As organizations become more stressed, he's worked to help individual leaders maximize their performance and that of their teams. Jim's coaching approach helps maintain, accountability, personal growth, and a focus on moving forward. One of his passions is the desire to help people and organizations become the best they can be and still maintain those qualities that make work fun and exciting.

Jim is an innovative retreat leader. Some of his retreats involve going to rustic settings, eating gourmet food, and designing outdoor activities that teach planning and teamwork. His Unique Retreats™ are as intriguing and useful to organizations and individuals as the retreats he conducts in traditional corporate settings. In the recent past, retreats have addressed such traditional topics as Strategic Planning, Change Planning, Stress Management, and Management Teambuilding.

Jim lives and works in Sioux Falls, SD. In his leisure, he indulges his life-long passion for the outdoors. He can often be found kayaking a river, hunting, camping with friends, or snow shoeing in the winter with his dogs for exercise and fun...or he may be conducting a training session out there.

**James Kellar PO Box 2694 Sioux Falls, SD 57101 (605) 940-9238  
kellartraining@gmail.com**

**Course limited to 30 Participants**

**INSTRUCTOR: JIM KELLAR**

**COORDINATORS: Ginny Beck & Joe Denison**

# SESSION 2

Washington Room

## TRANSFORMER CONNECTIONS

### 40 Students Maximum

A 12-hour workshop designed for apprentice linemen or for experienced linemen and servicemen who are willing to go through a refresher course seeking ideas for communicating and explaining electrical terms and transformer connections to employees whom they may supervise. The workshop experience will be valuable to senior linemen who did not have the opportunity to learn the trade at a lineman's school. A pocket calculator would be helpful in determining the anticipated voltage.

#### **General Session**

Tuesday January 16th 2:00 pm – 4:00 pm

#### **PARTS I AND II**

Wednesday, 8:00 am - 5:00 pm

Description: This part will discuss basic three-phase systems. We will work with some basic phasor diagrams and try to explain the relationship of the phasor to the transformer itself. We will also make transformer connections with miniature equipment.

Description: Recognizing that the majority of work done with transformers is for single-phase loads, we will begin with basic transformers. This will include turns ratios, polarities, calculations, connections, and troubleshooting. We will use lecture, open discussion, and hands-on connection with miniature equipment.

#### **PART III**

Thursday, 8:00 am - 12:00 noon

Description: We will continue to build miniature transformer banks and work on troubleshooting. We will also discuss motor rotation as it related to three-phase systems, as well as discuss ways to prevent voltage surges during switching a three-phase bank.

**Scott Meinecke** trained and worked as an electrician prior to his 1984 graduation from the Powerline Program at Northwest Iowa Community College in Sheldon. Scott was employed as a lineman with Iowa Lakes Electric Cooperative in Spencer Iowa and later at their service center in Pocahontas, Iowa. Scott has an AAS degree in Powerline Technology and joined Northwest Iowa College in 1989 as an Instructor in the Powerline Program. Scott continues to teach a wide variety of topics, both classroom and hands-on from pole climbing to equipment operation to substation, etc. He is well known for the hand-on Transformer Workshop taught throughout the Iowa-Minnesota-South Dakota region.

All people taking this class are reminded to bring their low voltage rubber gloves.

**Instructor: Scott Meinecke** - Iowa State Wide Assc. **Coordinators:** Jason Frasch, Evan Buckmiller



# **SESSION 3 & 4**

Lincoln Room

## **OPERATIONS AND SAFETY**

**General Session**

Tuesday January 16th, 2:00 pm – 4:00 pm

### **PART 1**

Wednesday, 8:00 am - 5:00 pm

#### **8am to 12am Jim Stephens (cable prep)**

Underground Splicing & Termination: Product Evolution, Cable Prep & Failure Analysis This session will cover the Utility Industry progression from Tape Splicing to the more modern Cold Shrink Splices & Terminations, discussing Tape method, Push-on, Heat Shrink & Cold Shrink. A focus on the differences between Heat Shrink vs Cold Shrink. With Cable Prep being a key factor to a successful installation, the steps of the cable prep process will be discussed with why each is so important in the process. We will discuss why most failures occur with photos of failed splices & terminations. We will have a hands-on installation possibly depending on time.

#### **1pm to 3pm- Gary Grimms, Locators & Supplies Inc**

The class will assist in developing the understanding and skills needed to perform accurate underground utility locates. We will cover the science and theory behind locating, along with best practices and troubleshooting techniques for those difficult locates. There will also be an opportunity to discuss fault to ground fault finding if the attendees desire.

#### **3pm to 5pm – Mike Sprang and John Pollard, TSTM**

This class will be covering meter basics, applications and troubleshooting

**Course Coordinators:** Bruce Brekke, Brad Wenande

## **PART 2**

Thursday 8:00 am – 12:00 pm

### **8am – 12pm Beating the Odds**

Tree work is one of the highest risk professions in the United States with a fatality rate 15 times that of the all-industry average. This session will highlight all the recent changes from chain saw operations to working in the vicinity of electrical conductors that are going into effect in 2023. We will also discuss the fatal and serious nonfatal incidents that were the drivers to create the changes. We will also discuss the new pruning standards, and focus on the ones specific to line clearance.



**John Ball** is a Professor of Forestry at South Dakota State University where he conducts research on tree worker safety as well as instructs courses in arboriculture. He has published the research in a wide range of journals and trade publications including *Arboriculture & Urban Forestry*, *Arborists News* and *TCI* and has made presentations in more than 40 states. John previously managed tree care companies in the Midwest and New England.

**Instructor:** John Ball – SDSU

**Coordinators:** Mike Antonson, Travis Schroeder

# SESSION 5

## Jefferson Room

# RECLOSERS

### General Session

Tuesday January 16th, 2:00 pm – 4:00 pm

Wednesday, 8:00 a.m. - 5:00 p.m.

Thursday, 8:00 a.m. - 12:00 noon



*Jeremy Kalt, P.E.*

ELECTRICAL ENGINEER

Jeremy Kalt is a licensed professional engineer in South Dakota. Jeremy works for STAR Energy Services as an Electrical Engineer based out of the Aberdeen, South Dakota office. Jeremy provides STAR's clients with electrical engineering services, which include long range planning studies, work plans, sectionalizing studies, contingency switching orders, project managements, arc flash calculations, SCADA development and maintenance, equipment testing, and customer power quality investigations. STAR Energy Services, headquartered in Alexandria, Minnesota, is a solutions-based organization that provides a portfolio of services to electric utilities in a five-state area. These services include electrical engineering, software development and integration, IT management, GIS, safety and OSHA compliance, electrical testing, and field inspections.

Jeremy started his electrical engineering career at Dalager Engineering after receiving his degree from the South Dakota School of Mines & Technology in 2005. He has been a registered professional engineer since 2013. Jeremy is experienced with protection and coordination schemes, which includes setting/programming electronic controls for reclosers, breakers, and other protective devices and also includes troubleshooting issues on the line and with the protective equipment itself.

JKALT@STAR-ENERGY.COM | 320-460-8370



Chris Graff is the System Engineer at Sioux Valley Energy. Chris received his Bachelor of Science degree in Electrical Engineering from South Dakota State University and is currently a licensed Professional Engineer in South Dakota and Minnesota. Chris has been with Sioux Valley Energy for approximately 2 years. Prior to his time at Sioux Valley, Chris spent ten years as a utility consultant for an Engineering firm in Sioux Falls. During his career Chris has primarily been responsible for distribution system planning, distribution line design, transmission design, and substation design along with other roles.

**Instructor:** Jeremy Kalt, Chris Graff

**Course Coordinators:** Todd VanderWal, Jay Spaans

# SESSION 6

Roosevelt Room

## "Preparing for Hostile Events in The Utility Industry"

General Session

Tuesday January 16th, 2:00 pm – 4:00 pm

**Security Consideration For The Utility Industry**

Wednesday, 8:00 a.m. - 5:00 p.m.

Thursday, 8:00 a.m. - 12:00 noon

### Preparing for Hostile events.

Risk is inevitable. How much risk is acceptable? This presentation examines risk from a utility perspective.

Topics will include:

- Meth Lab recognition
- Active shooter preparations and survival
- Organized crime recognition and avoidance (Includes "Gang chart")
- Driving security considerations
- Building, perimeter and parking lot security
- Avoiding and de-escalating confrontations
- Reducing theft(s) (Power and/or materials)
- Security assessments
- IED's and Bomb threat recommendations
- Identity theft avoidance and prevention
- Workplace violence avoidance recommendations
- Top "10" list of security considerations

This fast paced, audience interactive presentation will provide you with the cost effective "tools" required for your On-going security efforts. Attend this presentation and experience why thousands of participants from hundreds of utilities consider this a "must see" program!

#### **SPEAKERS BIO ...**

Your presenter, Stefan V. Salmonson, is the president of **PRO**protective Services, Inc. He is a U.S. Army veteran, licensed deputy sheriff/tactical trainer, licensed private detective/protective agent in several states, certified personal protection specialist (Bodyguard), international security consultant, experienced weapons/tactical and operational specialist, 3ECHO (Rapid response to an active shooter threat) instructor, EMT, former contract government investigator, Workplace Violence "Expert Witness", airline transport pilot (ATP), flight instructor (CFI) and professional speaker.

Stefan and his team(s) have provided executive, personal protection services and high-risk employment termination support services. He has provided discrete investigations, security related training, keynote presentations, security assessments, consulting and risk management recommendations for hundreds of clients nationwide.

Karla J. Kastenbauer is the OPS Manager for **PRO**protective Services, Inc. She has a law enforcement background, extensive experience in food service, manufacturing/supply chain security and is a certified mental health instructor with an emphasis on (QPR) Suicide Prevention.

### **Optional Info ...**

Stefan writes security related articles for publications and is frequently retained to discuss/document security concerns, assist clients with risk management reviews and business continuity concerns through training/presentations, security assessments, policy/procedure development and implementation. Clients include national/international corporations, government agencies, foreign royalty, utility industry, school districts/student transportation, flight department/associations, prisons, hospitals, houses of worship, financial institutions, wealth managers, media, the trucking, real estate and insurance industry.

Company adage ... ***“Provide our clients with security related answers before the questions are even asked”.***



**Stefan V. Salmonson, PPS PRO**protective

Services, Inc.

2648 Jade Street, Suite 200

Mora, Minnesota 55051

**Office:** 320-679-4848

**Cell:** 612-961-5867 (24/7)

**E-Mail:** [Stefan@PROprotectiveServicesinc.net](mailto:Stefan@PROprotectiveServicesinc.net)

**WEB:** [WWW.PROprotectiveServicesinc.net](http://WWW.PROprotectiveServicesinc.net)

**MEMBER:** MAPI, ASIS, MGIA, SOTA

Stefan V. Salmonson, PPS, President

**Instructor:** Stefan Salmonson

**Coordinators:** Chad Loeffler, Travis Denison

# SESSION 7

## Substation and Regulators

Wednesday, January 17<sup>th</sup> 8am-5pm

CONFERENCE ROOM 2

## Substation Design and Maintenance

In power systems, substations play a vital role in safety, transmission, delivery, and reliability. This course will cover the planning, components, design, operation, and maintenance of substations. The course material is based on RUS Bulletin 1724E-300 Design Guide for Rural Substations. With the ever-evolving electrical supply and regulations, more substations are needed to meet the goals of decision makers. It is as important as ever to understand the topics covered in this course as the industry moves to satisfy the needs of our society.

Zachary Hewitt, EI

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Zachary Hewitt is a Staff Engineer with Rushmore Engineering in Rapid City. He graduated from SDSM&T with a degree in electrical engineering in 2012. After graduation, Zach took the role of Application Engineer for Border States Electric based out of Fargo, ND. Since starting with Rushmore in 2015, he has served as project manager on several substation construction projects in addition to planning and overseeing retrofits and upgrades to existing substations.

Sean Bestgen, PE

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Sean Bestgen is the System Engineer at West River Electric in Rapid City. He obtained an Electrical Engineering degree from South Dakota School of Mines in 2013. With the growth West River has been experiencing, Sean has been involved with multiple substation projects.

**Instructors:** Zachary Hewitt, EI and Sean Bestgen, PE

**Coordinators:** Mike Letcher, Nick Reiff

# SESSION 8

CONFERENCE ROOM 2

## NATIONAL ELECTRIC CODE HOURS

8 Hours Code Credit

**Each attendant needs to bring a Current NEC code book**

### PART I

CONFERENCE ROOM 2

### CODE CLASS

Wednesday, January 17th, 8:00 a.m. - 5:00 p.m.

Byron Krull is an instructor in the Industrial Commercial Wiring program at Northwest Iowa Community College in Sheldon Iowa. He has over 30 years' experience in the electrical field including 22 years owning his own electrical contracting business. Byron is a member of the SDEC, NIEA, and the IAEI and currently holds an EC license in South Dakota and a Iowa Masters.

### 2024 NEC code update

This class will provide information on some of the changes in the 2024 National Electric Code. Please bring a current code book if possible.

**Code class attendees are free to leave at the end of Wednesday the 17<sup>th</sup> or Jump into a session of their liking the following morning.**

**Instructor:** Brian Krull

**Course Coordinator:** Monty Munkvold, Corey Kramer

# THANK YOU

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SIOUX VALLEY

SOUTH DAKOTA MUNICIPAL ELECTRIC ASSN

EAST RIVER ELECTRIC COOPERATIVE

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## BRONZE

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IBEW 426

OTTERTAIL ELECTRIC





## **Joint Utility Training Committee**

President: Jason Frasch – Rosebud Electric, Gregory, SD

Vice President: Jay Spaans- Douglas Electric Cooperative, Armour, SD

Secretary: Mike Antonson-City of Beresford, Beresford, SD

Treasurer: Kyle Hills – City of Sioux Falls, Sioux Falls SD

## **South Dakota Rural Electric Association:**

Evan Buckmiller – Kingsbury Electric Cooperative, DeSmet, SD

Terry Ebright – Sioux Valley Energy, Colman, SD

Jay Spans – Douglas Electric Cooperative, Armour, SD

Chad Loeffler – Charles Mix Electric, Lake Andes, SD

Mike Letcher – West River Electric, Rapid City, SD

## **Investor –Owned Electric Utilities:**

Corey Kramer – Otter Tail Power Co, Milbank, SD

Brad Wenande – Northwestern Energy, Yankton SD

Bruce Brekke – Montana-Dakota Utilities, Mobridge, SD

Dean Sigman – Black Hills Energy, Sturgis, SD

## **Municipal Electric Utilities:**

Kyle Hills – City of Sioux Falls, Sioux Falls SD

Ginny Beck – Crooks Municipal Gas, Crooks, SD

Mike Antonson-City of Beresford, Beresford, SD

Monty Munkvold – City of Vermillion, Vermillion, SD

Todd VanderWal – Brookings Municipal Utilities, Brookings, SD

## **Generation, Transmission, Political Sub Districts, Statewide Association:**

Nick Reiff – East River Electric Cooperative, Madison, SD

Jason Frasch – Rosebud Electric, Gregory, SD

Mark Patterson – SD Rural Electric Association, Wall, SD

Travis Denison – MMUA, Lake Preston, SD

## **Associate Members (Non-Voting):**

Joe Denison – SDREA, Pierre, SD

Travis Schroeder – SDREA, Pierre, SD

## **Vendors Association:**

Chad Low – Border States Electric