

https://www.juts.biz/

Training Today for Tomorrow

49TH Annual

Joint Utility Training School
January 21st, 22nd, 23rd 2025
Ramkota Hotel - Sioux Falls, SD

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)	

All sessions are \$265 + fee/tax. **Can purchase General Session only for \$75.** Payment will be made through Eventbrite at time of registration. Registration deadline is January 10^{th,} 2025. If you have questions, please reach out to Dean Sigman. Phone: 605-206-2959 – E-mail: dean.sigman@blackhillscorp.com

49th Annual Joint Utility Training School January 21, 22 & 23, 2025 Ramkota Hotel, Sioux Falls, SD

REGISTRATION FEE
\$265 per student + fee/tax– PREPAID
You can purchase the General Session only for \$75
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 UTILITIY 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

https://www.eventbrite.com/e/copy-of-juts-2025-tickets-1015653094747?aff=oddtdtcreator

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 December 5, 2024 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 & light appetizers

Noon meal provided by JUTS on Wednesday in the Exhibit Hall.

LUNCHEON

Wednesday - January 22,2024 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 21st 2:00 pm to 4:00 pm



JEFF LEDUFF

LeDuff served six years as Chief-of-Police for the City of Baton Rouge. Prior to his tenure as Chief, he graduated from the FBI National Academy in 1994, and was the first Louisiana officer to graduate as class president. He also attended the FBI's Law Enforcement Administration Development School (L.E.A.D.S) and National Executive Institute of Law Enforcement Management Training. He spent many years training law enforcement officers from across the country in the art of self-defense. Additionally, he was the lead instructor for the Baton Rouge Police Academy.

KELLY LEDUFF

Born and raised in Baton Rouge, Louisiana Kelly LeDuff graduated from Catholic High School and attended Southern University. In 2004, while working part-time with a janitorial company at Kansas City Southern Railroad (KCS) his commitment and work ethic did not go un-noticed. He was hired as a conductor at KCS and eventually became the youngest manager on that railroad. Through his years in the railroad industry, Kelly's drive and passion ultimately lead him to Canadian National Railway Company (CN).

While working for CN, Kelly's entrepreneurial spirit surfaced, and he started several businesses in the Baton Rouge area. In 2009, with the murder of his uncle near the railroad tracks where he worked for many years, Kelly knew he had a bigger purpose. Combining his experience in the private sector, with his father's 30 year career in law enforcement, OpenEyes Safety Training and Consulting was created.

Kelly's initial vision of providing the Baton Rouge area with self-defense training for individuals and businesses has now grown into a multi-faceted company offering state of the art technology, along with consulting and training services. Partnering with BluePoint Technology, Kelly and his father, Former Police Chief Jeff LeDuff, offer the Blue Box, a rapid response emergency alert system that provides a rapid alert to law enforcement, insuring a rapid response.

Presenter: Jeff & Kelly Leduff Coordinator: Terry Ebright

GETTING IT RIGHT WORKING MORE EFFECTIVELY WITH OTHERS

General Session

Tuesday January 21st, 2:00 pm – 4:00 pm Wednesday, January 22nd 8:00 am - 5:00 pm Thursday, January 23rd 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 of 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 $^{\text{TM}}$ 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:** Joe Denison

TRANSFORMER CONNECTIONS

40 Students Maximum

A 12-hour workshop designed for apprentice lineman 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 21st 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 OPERATIONS AND SAFETY

General Session

Tuesday, January 21st, 2:00 pm - 4:00 pm

PART 1

Wednesday, January 22nd 8:00 am - 5:00 pm

8am to 12am American Power (underground cable prep)
1pm to 3pm- Locating
The class will assist in developing the understanding and skills needed to perform accurate underground utility locate. 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 – DGR Engineering, Solar Safety/Distributed Generation

Instructors: Course Coordinators: Bruce Brekke, Mike Antonson

PART 2

Thursday, January 23rd 8:00 am - 12:00 pm

8am - 12pm Drug recognition/awareness & service dog



Trooper Eric Peterson started his career with the South Dakota Highway Patrol in 2016 and was stationed in the Vermillion Squad. In 2019, he was selected as a Criminal Interdiction Trooper, focusing on removing illegal contraband being transported in and through the state. In 2021, he was selected as a dual-purpose Police Service Dog (PSD) handler and was assigned PSD "Drago." Trooper Peterson is one of two dual-purpose handlers for the Highway Patrol. He is also a Detection (drug and explosives) and Patrol PSD Instructor for the State of South Dakota.



Trent Heuertz started his career with the South Dakota Highway Patrol in 2001 as a member of the Highway Patrol's Motor Carrier Enforcement Division. In 2004 he became a Trooper and was stationed in Webster, where he spent 5 years. In 2009, Trent became a member of the Highway Patrol's Police Service Dog Unit and transferred to Elk Point, where he is currently stationed and handling his second single purpose narcotic detection canine. In addition to his normal duties, Trent is heavily involved in South Dakota's Drug Recognition Expert Program and is one of the state's lead instructors. This program ensures that select law enforcement officers from around the state have the knowledge and skills to detect and remove drug impaired drivers from the roadways of South Dakota.

Instructor: Troopers Eric Peterson & Trent Heuertz Coordinators: Mike Antonson, Travis Schroeder

SESSION 5 RECLOSERS

General Session

Tuesday January 21st, 2:00 pm – 4:00 pm Wednesday, 8:00 a.m. - 5:00 pm Thursday, 8:00 a.m. - 12:00 noon



Western Area Power Administration (WAPA)

Presenting on General Grid information and Power Generation

Presenting company information

Upper Great Plains Region – Western Area Power Administration

Greg Lowe



Greg Lowe has dedicated almost 2 yrs to Siemens Energy at their Richland, Mississippi factory displaying a focused background in Chemical Engineering, but also other manufacturing environments include automotive tires, acrylic and polyurethane adhesives, sodium chlorate and now voltage regulators for continuous professional growth.

His journey began in the voltage regulator department as an Application Engineer and is now his current role as well. Greg plays a pivotal role as a product focused AE for formal verification for the drive and growth of business across the North America accounts. As a product focused AE, Greg works with the contract administrators and business managers to drive the adoption of formal proposals for products and applications in the customers' verification engagement opportunities, including constructing and driving top-down and bottom-up plans account by account within his region including calling out strategy to capture unidentified business as well maintain it in that territory.

Greg Lowe's range of experience, technical knowledge, and dedication to continuous improvement make him an asset to Siemens Energy. His contributions have not only enhanced the company's operations but have also paved a way for a culture of excellence and innovation within the Siemens Energy organization.

Toby Channell



Toby Channell has dedicated 19 years to Siemens Energy at their Richland, Mississippi factory, showcasing a career marked by expertise, dedication, and continuous professional growth. His journey began in the voltage regulator department as a winder, where he honed his skills and contributed significantly to the production process over the course of five years.

Demonstrating exceptional ability and leadership potential, Toby transitioned to the role of Production Supervisor for Voltage Regulators, overseeing critical areas such as insulation cut, winding, core build, and lead making. His comprehensive understanding of these intricate processes set the stage for his subsequent promotion.

For eight years, Toby served as the Lead Supervisor for the Liquid Immersed Distribution Transformer (LIDT) line. His responsibilities extended beyond the Richland facility as he received specialized training in Siemens Energy's international factories located in Austria, Colombia, and Mexico. This global training enriched his expertise and equipped him with a diverse set of skills essential for managing LIDT production.

Following his supervisory roles, Toby embraced a new challenge as a Voltage Regulator Field Service Engineer and RMA Manager. For five years, he traveled extensively, providing on-site support for warranty claims issues and managing warranty work performed in the factory.

Currently, Toby is the Supplier Quality Engineer for Voltage Regulators, where he plays a pivotal role in maintaining the highest standards of quality and reliability for Siemens Energy's products. His meticulous attention to detail and commitment to excellence ensure that all components meet rigorous specifications and industry standards.

In addition to his technical and supervisory roles, Toby has also contributed to the education and training of others. For the past five years, he has been an integral part of the Siemens Energy College of Knowledge, conducting hands-on training sessions. His workshops focus on troubleshooting and repairing mechanical issues in voltage regulators.

Toby Channell's extensive experience, technical acumen, and dedication to continuous improvement make him an asset to Siemens Energy. His contributions have not only enhanced the company's operations but have also fostered a culture of excellence and innovation within the organization.



Musharrat Sabah has recently joined Siemens Energy as a Machine & Equipment Design Engineer in Richland, Mississippi.

She started her professional career as an R&D Engineer at Energypac Engineering Limited in Dhaka, Bangladesh. Her role involved designing and developing foil winding distribution transformers, supervising detailed drawings for production, preparing necessary documents for tender submission and approval. Apart from receiving handson experience in electrical design and prototyping, she has also gained experience on collaborating with multidisciplinary teams such as production, sales, commissioning, and project management. She then made a sharp career turn and went back to academia to complete her PhD in Electrical and Computer Engineering from University of Kentucky. She worked as a Research and Teaching Assistant where she gained extensive experience in performing electrical power system analyses and simulations; conducting experiments and demonstrations; and teaching.

She then came back to working in the industry and has joined the Engineering team of Voltage Regulators at Siemens Energy. She is responsible for design and developments in voltage regulators, assisting the production team with equipment improvements, troubleshooting issues requiring engineering support, collaborating with multifunctional teams on the effective execution of customer requirements, and leading R&D projects on product improvements.

Musharrat believes that her multifaceted experiences, dedication, and technical acumen would be a valuable addition towards developments and innovation in Siemens Energy

Instructor: Jeremy Kalt, Siemens Course Coordinators: Todd VanderWal, Jay Spaans

"Preparing for Hostile Events in The Utility Industry"

General Session

Tuesday January 21st, 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**tective **S**ervices, 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**tective **S**ervices, 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 PROtective

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WEB: <u>WWW.PROtectiveServicesinc.net</u>

MEMBER: MAPI, ASIS, MGIA, SOTA

Stefan V. Salmonson, PPS, President

Instructor: Stefan Salmonson Coordinators: Chad Loeffler, Travis Denison

Substation and Regulators

Session 1: Wednesday, January 22nd 8am-12pm Wednesday, January 22nd 1pm-5pm (Join Session 5 demo trl) Session 2: Thursday, January 23rd 8am-12pm

Substation Design and Maintenance

Session 1

Substations and Coordination – 8 Hours

Linemen interact daily with substations and coordination devices, crucial components for the distribution system. Engineer's use industry standards and best practices to insure safe and reliable systems.

This course provides junior to senior linemen with an introduction to the design, construction, and maintenance of substations and the essentials of distribution coordination. Attendees are encouraged to bring experiences, questions, and stories to share with others.

PART 1 – Substations (Wednesday 8am-12pm)

Layout and purpose

Equipment – transformers, breakers, etc...

Construction – steel, foundations

Grounding

Instrumentation

Maintenance

PART 2 – Coordination (Thursday 8am-12pm)

Equipment – breakers, reclosure, fuses, sectionalizers

TCC Curves

Strategies

Modeling

Zachary Hewitt, El



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



Sean Bestgen is a System Engineer at West River Electric in Rapid City. He obtained an Electrical Engineering degree from South Dakota School of Mines in 2013. He has designed multiple substations and worked on better sectionalizing West River's distribution system.

Instructors: Zachary Hewitt, Sean Bestgen Coordinators: Mike Letcher, Nick Reiff

REQUIREMENTS OF THE 2023 NEC

8 Hours Code Credit

Each attendant needs to bring a Current NEC code book

PART I

CODE CLASS

Wednesday, January 22nd, 8:00 a.m. - 5:00 p.m.



Byron Krull

I have over 22 years as electrical contractor and hold the following licenses,

SD EC1729 and IA **EL6583MB.** I have 18 years serving as an Instructor in the Industrial Commercial Wiring Program at Northwest Ia. Comm. College in Sheldon, Ia. Retired as of May 2024.

I have been doing Cont. Ed and Business & Industry training since 2011 for electricians and manufacturers and now am doing NEC Cont. Ed. for electricians in SD, IA,NE, & MN.

I am a member of the South Dakota Electrical Council (Sioux Chapter), Northwest Iowa Electrical Association, and the Iowa Chapter of the IAEI.

2024 NEC code update

This class will provide information on some of the basic requirements and code changes in the 2023 National Electric Code. Please bring a current code book if possible.

Code class attendees are free to leave at the end of Wednesday the 22nd or jump into a session of their liking the following morning.

Instructor: Brian Krull Course Coordinator: Dustin Graham, Corey Kramer

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

Dustin Graham – City of Miller, Miller, 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:

Jamie Bates – Border States Electric