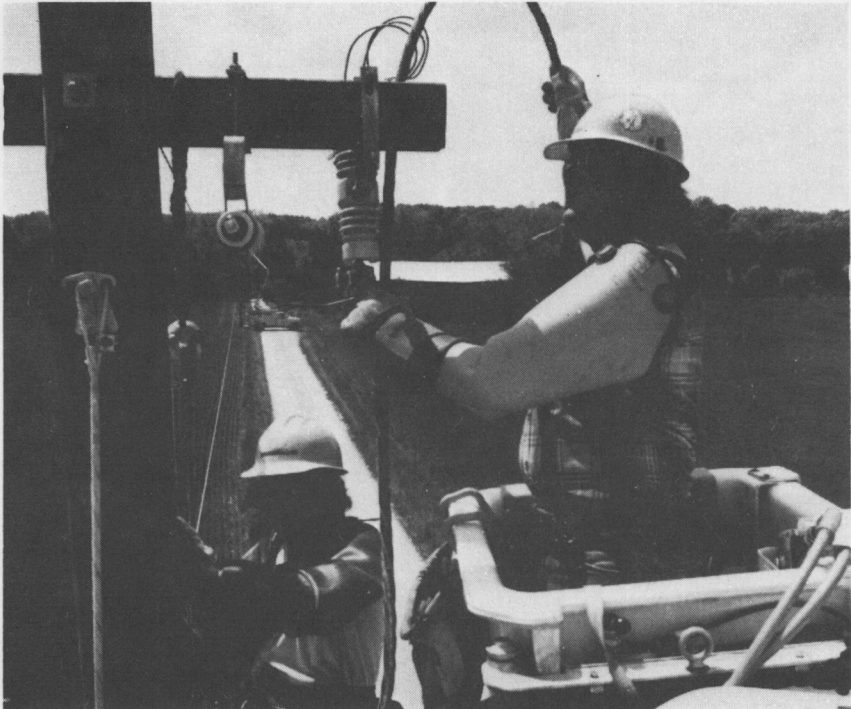


SIXTEENTH ANNUAL
JOINT UTILITY
TRAINING WORKSHOP

JANUARY 22, 23, 24, 1991

RAMKOTA INN
605-336-0650
SIOUX FALLS, SOUTH DAKOTA



SPONSORED BY
JOINT UTILITY TRAINING COMMITTEE
(JUTS)
SOUTH DAKOTA ELECTRICAL COUNCIL

PROGRAM

SESSIONS PROGRAM INFORMATION

Each session is designed as a 16-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.

REGISTRATION

\$80.00 per person

Pre-Paid Registration will include breakfast on Wednesday and Thursday morning at 6.30 a.m.- 8 00 a.m. in the Exhibit Hall and noon meal on Wednesday in the Exhibit Hall.

Tuesday, January 22, 1991
10:00 a.m. to 12:00 noon
Ramkota Inn

LUNCHEON

Wednesday, January 23, 1991
Ramkota Inn
12.00 p.m. to 1.00 p.m.

Mini-Courses will be:

Tuesday	1:00 p.m. to 5:00 p.m.
Wednesday	8:00 a.m. to 5:00 p.m.
Thursday	8 00 a.m. to 12:00 p.m.

SESSION I-A and SESSION I-B

Ramkota Inn

Session I-A -- Harvest Room (lower level)

Session I-B -- Viking Room (lower level)

LEADERSHIP SEMINAR

Tuesday, Jan. 22	1.00 p.m - 5:00 p m
Wednesday, Jan. 23	8:00 a m - 5 00 p m
Thursday, Jan 24	8 00 a m -12.00 noon

This session will be taught by two instructors. Each will work with half the participants at one time, then switch to work with the other half. Enrollment is limited to 60 people, 30 in each group

Title Supervisory Leadership
 Managing Yourself and Others
 Training Employees - Communication
 Improving Listening Skills and Employee Performance
 Leadership, Delegation and Team Building
 Managing Time and Stress
 Handling Complaints - Communication Upward
 Values and Workers - Building Relationships at Work
 Motivating Others, Setting Goals
 Attitude and How It Works - Self Esteem

Instructors: Jim Kellar, Training Associates, Sioux Falls, SD
 Suzanne Knudson, Human Relations Training Consultant,
 Sioux Falls, SD

Coordinator. James Mergen

COURSE LIMITED TO A MAXIMUM OF 60 STUDENTS

SESSION II

Ramkota Inn

Amphitheater I

COMMERCIAL DRIVERS LICENSE SEMINAR

Description: To assist attendees in understanding the Federal Motor Carrier Regulations and prepare them to pass the written examination administered by the State of South Dakota.

PART I

Tuesday, 1:00p.m. - 3.00 p.m

Title: CDL Regulations & How They Effect Electric Utilities

Instructor. Sgt. Myron Rau, S.D Highway Patrol, Mitchell, SD

PART II

Tuesday, 3 15 p.m - 5 00 p m

Title: Facts Necessary for CDL. General Knowledge. Air Brakes Combination Vehicles and Cargo

Instructor Ken Albers, Southeast Vocational Technical Institute
Sioux Falls, SD

PART III

Wednesday, 8 00 - 5 00 p.m

Title: Continuation of the CDL Workshop with a complete review

Instructor Ken Albers, Southeast Vocational Technical Institute
Sioux Falls, SD

PART IV

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

Title: Written Examination for Class A CDL

Examiners: Stan Knox, Pierre, SD & Harry James, Sioux Falls, SD
Coordinators: Dean Greer & Rod Gunn

SESSION III

Ramkota Inn

Washington Room

TRANSFORMER CONNECTIONS

A workshop designed for apprentice linemen or for experienced linemen or servicemen who are willing to go through a refresher course seeking ideas for communicating and explaining electrical terms and transformer connections to employees that they may supervise. A pocket calculator would be helpful in determining the anticipated voltage

IT WOULD BE HELPFUL IF THE PERSON WHO REGISTERS COULD EXPRESS A PREFERENCE FOR . POLE-MOUNT TRANSFORMERS, PAD-MOUNT TRANSFORMERS OR MINIATURE SUBSTATIONS.

Please have participants indicate a preference on the registration form

PART I

Tuesday, 1:00 p.m. - 5:00 p.m.

PART II

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

Title: Basic Electricity

Description: This is a segment of slides, demonstration, and lecture designed to give line personnel a non-technical, basic review of single - and three-phase power, and delta and wye connections. An hour and a half will be devoted to becoming familiar with the miniature equipment, determining transformer polarity and transformer turns ratio. The class will then begin hands-on connections with miniature transformers.

PART III

Wednesday, 1:00 p.m. - 5:00 p.m.

Title: Three-Phase Power, Sequence and Voltage

Description: A lecture, demonstration, and hands-on experience making connections on miniature transformers to provide a specific sequence and/or voltage output.

SESSION III - TRANSFORMER CONNECTIONS (CONTINUED)

PART IV

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

Title: Trouble-Shooting

Description: Live hands-on experience solving typical power bank and substation service problems on miniature equipment. The instructor and supervisors will answer your questions and assist you in finding a solution to classroom exercises in trouble-shooting. One hour lecture on power factor

Instructors Gordon Solee, Engineer Consultant, Fergus Falls, MN
Chuck Meyers, NSP, Sioux Falls, SD
Vic Graham, NSP, Sioux Falls, SD
Richard Davis, NWPS, Huron, SD
Dennis Wagner, NWPS, Huron, SD
Chuck Weeks, MDU, Bismarck, ND
George Colombe, East River Electric, Madison, SD

Coordinators: Al Kubousek and Andy Jensen

COURSE LIMITED TO A MAXIMUM OF 48 STUDENTS

SESSION IV

Ramkota Inn

Jefferson Room

Z.E.M.A.R. REGULATOR SCHOOL

Description: Students will be rotated through work stations containing regulators and panels. Regulator types will include General Electric, Allis Chalmers, Siemens Allis, Siemens, and McGraw-Edison. Students here get an excellent opportunity to trouble shoot old and new types of controls and learn good trouble shooting techniques which can apply to other types of equipment.

PART I

Tuesday, 1 00 p m. -5 00 p m.

Title: Theory and Operation

PART II

Wednesday, 8.00 a.m. - 12:00 noon

Title: Application and Accessories

PART III

Wednesday, 1 00 p m. -5 00 p m.

Title: Electronics and Trouble Shooting Procedures

PART IV

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

Title: Hands-on Trouble Shooting and Questions and Evaluation

Instructor: Joe Robb, Z.E M A R. Regulator School
Zanesville, OH

Coordinators: Bob Crawford and Richard "Slim" Rutschke

COURSE LIMITED TO A MAXIMUM OF 24 STUDENTS

SESSION V

Ramkota Inn

Lincoln Room

ELECTRIC METERING

Tuesday, 1:00 p.m. - 5:00 p.m.

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

Title: Basic Metering

Description: A 12-hour course designed for linemen or apprentice metermen with little or no metering experience. The course will cover: fundamentals of a watt hour meter, name plate and register information, determining multipliers, selection of meters and sockets per installations, and review of CT and PT applications. Included in this course will be fundamentals, performance, programming, and software of electronic and 100% solid state meters.

Each student is required to bring to the course a meter; any type of meter will work, i.e., single or polyphase (3 phase), old or new.

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

Description: Round table discussion on metering installations, problems, and conditions found in the field.

Instructors: Gary January - Westinghouse - ABB, Raleigh, NC
Tom Polk - Westinghouse - ABB, Omaha, NE
Greg May - May Engineering Lab, Sioux Falls, SD
Bill Cimperman - WESCO, Sioux City, IA
Greg Guggenomos - WESCO, Sioux City, IA

Coordinators: Bruce Brunick and Ron Globke

SESSION VI

ENGINEERING

Amphitheater II

PART I

Tuesday, 1:00 p m -5:00 p.m

Title: Power Quality

Description: How may we minimize consumer complaints because of utility equipment operation?

Instructor Alvin Bierbaum, Engineer, Urbandale, IA

PART II

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

Title: Stray Voltage

Description: How to take immediate action to curb consumer losses

Wednesday, 1 00 p m. - 5 00 p m

Hands-on instruction at a farm located near Sioux Falls

Instructor Alvin Bierbaum, Engineer, Urbandale, IA

PART III

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

Title: System Protection and Sectionalizing

Instructor David H. DeVries

Dewild, Grant and Reckert, Rock Rapids, IA

Coordinators: Clarence V Wattnem and Stuart Wevig

SESSION VII
Ramkota Inn
Roosevelt Room

OPERATIONS AND SAFETY

PART I

Tuesday, 1:00 p m.-3 00 p m.

Title. Care of Body Belts and Climbers

Description: Proper maintenance of belts and proper sharpening of climbers

Instructor: Roderick A. Paul, Bashlin Industries, Grove City, PA

PART II

Tuesday, 3 00 p m. -5 00 p m

Title. Cotton Clothing and Personal Protective Equipment

Description: Care and maintenance of protective equipment, rubber gloves, etc.

Instructor: Gale Tollefson, Otter Tail Power Company
Wahpeton, ND

PART III

Wednesday, 8 00 a m -11 00 a m

Title Grounding

Description. Two-point equi-potential temporary protective grounding - an acceptable alternate to present grounding systems.

Instructor Jim Fox, A B Chance Company, Maple Lake, MN

Title Care and Maintenance of Hot Sticks

Instructor Lonnie Bell, A B Chance Company, Centralia, MO

PART IV

Wednesday, 11 00 a m. -12 00 noon & 1.00 p m -2 00 p m

Title Principles & Practices of Back Injury & Prevention

Instructor: Allen Holm, Physical Therapist
Director of Rehabilitation Services
McKenna Hospital, Sioux Falls, SD

SESSION VII - OPERATIONS AND SAFETY (Continued)

PART V

Wednesday, 2.00 p m. -5 00 p m

Title: Burn Management at the Scene

Instructor Marla Devaney, Burn Coordinator
McKenna Hospital, Sioux Falls, SD

Title: One Person's Life Long Experience from an Electrical Injury

Instructor Sheldon Jensen, Turner-Hutchinson Electric, Marion, SD

PART VI

Thursday, 8.00 a.m. -12:00 noon

Title · Chain Saw Safety

Description· Safety concerns. chain saw functions and maintenance; cause, effect and prevention of kick-back; and protective equipment

Instructor: Alex Bildeaux, Jr , Tilton Equipment Company
St. Paul, MN

Coordinators Curt Goehring and Joe Halverson

SESSION VIII

Ramkota Inn

Conference Room (lower level)

CUSTOMER RELATIONS

Tuesday, 1 00 p m - 5:00 p m

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

Thursday, 8 00 a m - 12 00 noon

This class consists of hands-on training on how to deal with other people. It is specifically designed to deal with utility customers but will also help the participant communicate with spouse, children, and people in general.

It is a hands-on practice-type training class put together by Kaset, Inc. It is applicable to all classifications of employees but most helpful to those dealing directly one-to-one with customers.

Instructor: Randy Erickson, Black Hills Power and Light
Rapid City, SD

Coordinator: Willy Haufschild

COURSE LIMITED TO A MAXIMUM OF 20 PEOPLE

SESSION IX

Ramkota Inn

Crystal Room

NATIONAL ELECTRIC SAFETY CODE

Tuesday, 1 00 p m - 5 00 p m.

Wednesday, 8 00 a m - 5 00 p m

Thursday, 8 00 a m - 12 00 noon

The purpose of this class is to teach electric distribution personnel how to use the 1990 NESC book and some of the things to look for on their existing system. This class is distribution oriented. Lectures, practice exercises, videos and practical application slides are used to make this a multimedia course.

" STUDENTS MUST BRING A 1990 NESC BOOK WITH THEM."

The class is broken into 7 parts

- | | |
|----------------------------------|------------------|
| 1. What is the NESC | Sections 10-17 |
| 2. Grounding Methods | Sections 90-99 |
| 3. Electric Supply Stations | Sections 100-193 |
| 4. Development of Overhead Lines | |
| 5. Overhead Lines | Sections 200-279 |
| 6. Underground Lines | Sections 300-391 |
| 7. Work Rules | Sections 400-446 |

Instructor: Willy Haufschild, Montana-Dakota Utilities Com.
Mobridge, SD

Coordinator: Willy Haufschild

COURSE LIMITED TO A MAXIMUM OF 25 PEOPLE

Joint Utility Training Committee

Chairman.

Randy Dickerson, South Dakota Rural Electric Association
Pierre, SD

Vice-Chairman.

Bruce Brunick, City of Vermillion, SD

Secretary.

Dean Greer, Northern States Power Co , Sioux Falls, SD

Treasurer.

South Dakota Electrical Council.

Pete Swanson (liaison), Watertown Municipal Utilities, Watertown, SD

JUTS Members

South Dakota Rural Electric Association.

Ron Globke, Turner-Hutchinson Electric, Marion, SD
Rick Kirschenmann, Rushmore Electric, Rapid City, SD
Juell Chapman, Grand Electric, Bison, SD
Clarence Wattnem, Lincoln-Union Electric, Alcester, SD

Investor-Owned Electric Utilities.

Al Kubousek, Otter Tail Power Company, Milbank, SD
Robert Crawford, Northwestern Public Service, Huron, SD
Willy Haufschild, Montana-Dakota Utilities Co , Mobridge, SD
Dean Greer, Northern States Power Company, Sioux Falls, SD
Stuart Wevig, Black Hills Power and Light, Rapid City, SD

Municipal Electrics.

Andy Jensen, Brookings Municipal Utilities, Brookings, SD
Jim Mergen, Sioux Falls Light Department, Sioux Falls, SD
Bruce Brunick, City of Vermillion, Vermillion, SD
Curt Goehring, City of Pierre, Pierre, SD

Generation, Transmission, Political Subdistricts, Statewide Association:

Slim Rutschke, South Dakota Rural Electric Association, Pierre, SD
Randy Dickerson, South Dakota Rural Electric Association, Pierre, SD
Joe Halverson, East River Electric Power Cooperative, Madison, SD

The JUTS committee would like to thank the following instructors and their companies for their participation in the Sixteenth Annual Joint Utility Training Workshop Without their involvement, this program would not be possible

All instructors are cordially invited to breakfast at 6 30 a m - 8 00 a m on January 23 & 24 in the Ramkota Inn Exhibit Hall and the noon luncheon on January 24 in the Exhibit Hall

Session I:

Jim Kellar Training Associates, Sioux Falls, SD

Suzanne Knudson Human Relations Training Consultant,
Sioux Falls, SD

Session II:

Sgt Myron Rau SD Highway Patrol, Mitchell, SD

Ken Albers Southeast Vocational Technical Institute,
Sioux Falls, SD

Stan Knox Pierre, SD

Harry James Sioux Falls, SD

Session III:

Gordon Solee Engineer Consultant
Fergus Falls, MN

Chuck Meyer Northern States Power Company
Sioux Falls, SD

Vic Graham Northern States Power Company
Sioux Falls, SD

Richard Davis Northwestern Public Service
Huron, SD

Dennis Wagner Northwestern Public Service
Huron, SD

Chuck Weeks Montana-Dakota Utilities
Bismarck, ND

George Colombe East River Electric Power Cooperative
Madison, SD

Session IV:

Joe Robb Z E M A R. Regulator School
Zanesville, OH

16th Annual
Joint Utility Training School
January 22, 23, & 24, 1991
Ramkota Inn - Sioux Falls, SD

REGISTRATION FEE
is \$80.00 per student. PREPAID

	No of students per class
I. LEADERSHIP SEMINAR -	
I-A	- 30 Maximum
I-B	- 30 Maximum
* II. COMMERCIAL DRIVERS LICENSE SEMINAR	
** III. TRANSFORMER CONNECTIONS**	- 48 Maximum
*** IV. Z.E.M.A.R. REGULATOR SCHOOL	- 24 Maximum
**** V. ELECTRIC METERING	
V1. ENGINEERING	
***** VII. OPERATIONS AND SAFETY	
VIII. CUSTOMER RELATIONS	- 20 Maximum
IX. NATIONAL ELECTRIC SAFETY CODE	- 25 Maximum

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

Please submit this form with registration. Make checks payable to Joint Utility Training School. Refunds and changes in registration will be allowed to January 5th. Send check and registration form to South Dakota Rural Electric Association, Attention Dawn Trapp, Loss Control Department, Box 1138, Pierre, SD 57501

- * Session II 16 hours of credit will be given by the State Electrical Commission
- ** Session III It would be helpful if the person who registers for this workshop could express a preference for
 - a) Pole Mount Transformers,
 - b) Pad-Mount Transformers, or
 - c) Miniature Substations
- *** Session IV 16 hours of credit will be given by the State Electrical Commission
- **** Session V 12 hours of credit will be given by the State Electrical Commission
- ***** Session VII 16 hours of credit will be given by the State Electrical Commission
- ***** Session IX 4 hours of credit will be given by the State Electrical Commission

Session V:

Gary January	Westinghouse - ABB, Raleigh, NC
Tom Polk	Westinghouse - ABB, Omaha, NE
Greg May	May Engineering Lab, Sioux Falls, SD
Bill Cimperman	WESCO, Sioux City, IA
Greg Guggenmos	WESCO, Sioux City, IA

Session VI:

Alvin Bierbaum	Engineer, Urbandale, IA
David H DeVries	Dewild, Grant and Reckert Rock Rapids, IA

Session VII

Roderick A Paul	Bashlin Industries Grove City, PA
Gale Tollefson	Otter Tail Power Company Wahpeton, ND
Jim Fox	A B Chance Company Centralia, MO
Lonnie Bell	A B. Chance Company Centralia, MO
Allen Holm	Physical Therapist Director of Rehabilitation Services McKenna Hospital Sioux Falls, SD
Marla Devaney	Burn Coordinator McKenna Hospital Sioux Falls, SD
Sheldon Jensen	Turner-Hutchinson Electric, Marion, SD
Alex Bildeaux, Jr	Tilton Equipment Company St Paul, MN

Session VIII:

Randy Erickson	Black Hills Power and Light Rapid City, SD
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Session IX:

Willy Hauschild	Montana-Dakota Utilities Company Mobridge, SD
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