

ELECTRIC POWER TECHNOLOGY

ONLINE • ASSOCIATE DEGREE



BISMARCK
STATE COLLEGE

**North Dakota's
Polytechnic Institution**



Become qualified in an industry with critical employment needs through flexible education that meets *your* needs.

CAREER opportunities

- Overhead Line Installer
- Substation Technician
- System Protection Technician
- Meter Technicians
- Substation Electrician
- Distribution Dispatcher
- Substation Technician
- System Designer
- Electric Field Planner
- Control System Specialist

Benefits to Enrolling:

- Program available entirely online
- Potential credit for prior industry training
- Fully accredited, enroll anytime
- Courses begin every 3-5 weeks

HANDS-ON LEARNING **WORKFORCE READY.**

BSC's online Electric Power Technology program is designed to provide you training in electric utility fundamentals.

The electric grid is a complex and ever evolving system that is critical to the economics of our nation and the comfort and safety of all consumers. Demands on the grid continue to grow with the expansion of distributed generation sources as do advanced technologies to help monitor, maintain, and control the grid. This program focuses on the safe and reliable flow of electricity from generation sources, across the transmission and distribution grid down to all of us as consumers. You will study the fundamentals of electrical grid systems including the components, equipment, system protection and communications systems. You will end their last semester by specializing in **metering, system design, substation or line construction.**

The Electric Power (ELPW) program was developed in collaboration with the Energy Providers Coalition for Education and is based on industry guidelines, with a direct link to electrical utilities fundamentals training.

Education to Begin Your Career:

- Become qualified in an industry with critical employment needs
- Prepare for openings in the electric utilities workforce
- Online courses are flexible to fit varying work schedules
- Industry qualified instructors
- Interactive industry approved online education

Enhance Your Company Training:

- Leverage cutting edge learning tools in training programs
- Accelerate development from within
- Standardize across regional/national footprint
- Align to your tuition reimbursement program
- Content developed by industry, for industry



**STRONG
JOB MARKET**



**\$76.7K
MEDIAN
SALARY**



**INCREASED JOB
QUALIFICATIONS**

*Earning estimates were provided by Lightcast in the summer of 2026

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Core Classes

1st Semester:

ELPW 111	Introduction to the Electrical Industry & Power Grid	3 credits
ENRT 106	DC Fundamentals	2 credits
ENRT 108	AC Fundamentals	3 credits
ELPW 114	Industrial Safety and Health	3 credits
ENRT 117	Technical Communication	3 credits

2nd Semester:

ELPW 105	Electrical System Fundamentals	3 credits
ELPW 112	Electrical System Components	3 credits
ELPW 120	Industrial Prints and Diagrams	4 credits
ENRT 221	Applied Electronics	3 credits

3rd Semester:

ENRT 224	Automation and Control	3 credits
ENRT 230	Power System SCADA	3 credits
ELPW 204	Advanced Electrical Systems	4 credits
ELPW 206	Electrical System Protection	4 credits

4th Semester - Choose one specialization track or an equivalent of 12 credit hours

Line Construction:

ELPW 250	Transformers	4 credits
ELPW 230	Underground Line Construction	4 credits
ELPW 210	Overhead Transmission & Distribution Line Construction	4 credits

Metering:

ELPW 208	Advanced Math	4 credits
ELPW 213	Fundamentals of Metering	3 credits
ELPW 233	Single-Phase & Polyphase Metering	3 credits
ELPW 253	Advanced Metering Technology	2 credits

Substation:

ELPW 251	Substation Construction & Maintenance	4 credits
ELPW 211	Substation Relay	4 credits
ELPW 231	Substation Operations	4 credits

System Design:

ELPW 208	Advanced Math	4 credits
ELPW 240	Electric Distribution Systems	4 credits
ELPW 252	Civil Design	4 credits

Discover the next version of you. Apply today!



Virtual & in-person visits available at bismarckstate.edu/visit



Call 701-224-5429



Text 701-390-1075

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