

POWER GENERATION TECHNOLOGY

ON CAMPUS • ONLINE



BISMARCK
STATE COLLEGE

North Dakota's
Polytechnic Institution



The US Department of Energy recognizes BSC as the premier national center of education and training for operators and technicians in the energy industry.

CAREER opportunities

- Auxiliary Operator
- Control Operator
- Control Room Operator
- Operations Technician
- Plant Control Operator
- Power Plant Operator
- Power Technician
- Station Operator
- Unit Operator
- Boiler Operator

NATIONAL ENERGY CENTER OF EXCELLENCE

HANDS-ON LEARNING.

WORKFORCE READY.

BSC's Power Generation Technology program prepares students for employment as multi-skilled power generation operators who control, operate, maintain, and troubleshoot equipment and systems used to generate electric power.

This program provides students with an understanding of the equipment principles of operation involved in power generation, preparing students for employment in power generating facilities like fossil fuel plants, gas turbine facilities, combined cycle facilities, and other sites that generate steam or electricity. Students learn the technical and safety aspects of plant operations, the responsibilities of plant operators, and the mechanical and chemical technology needed for working in related industrial operations.

Prescribed Technical Program Requirements

ENRT 101	Introduction to Energy Technology	3 credits
ENRT 105	Safety, Health & Environment	3 credits
ENRT 107	Mechanical Fundamentals	3 credits
ENRT 110	Plant Equipment & Systems	4 credits
ENRT 112	Print Reading	3 credits
ENRT 104	Electrical Fundamentals	3 credits
ENRT 116	Instrumentation & Control	4 credits
ENRT 224	Automation & Control	3 credits
ENRT 118	Heat Transfer, Fluid Flow & Thermodynamics	3 credits
ENRT 120	Water Purification & Treatment	3 credits
ENRT 205	Steam Generation	3 credits
ENRT 215	Operations, Troubleshooting & Communication	3 credits
PWRP 207	Boilers & Environmental Protection	3 credits
ENRT 221	Applied Electronics	3 credits
PWRP 210	Turbines & Combined Cycle	3 credits
PWRP 224	Power Generation, Components & Protection	3 credits
ENRT 220	Practical Applications	2 credits



**STRONG
JOB MARKET**



**\$80K
AVERAGE
SALARY**



**KNOWLEDGE OF
A VITAL INDUSTRY**

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