

# Electric Power Technology

## Contact Info.

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## Program Objectives

The Casper College Electric Power Technology Program provides students the opportunity to:

- Earn a two-year associate of applied science degree or a one-year certification in electric power technology
- Acquire a position, after graduation, as a power plant operator
- Gain hands-on experience through “work shadowing” with qualified operators at a local power plant
- Use new, \$100,000, state-of-the-art power plant simulator and steam trainer to get the “feel” and reality of a working plant

In today’s modern environment, we often take the flip of a light switch for granted. Nevertheless, with this simple gesture, we are connecting to a vast system that includes the elements of people, electric lines, and generating equipment. Power plant operators, who are responsible for the machinery that generates electricity, are a vital part of this industry.



## Points of Pride

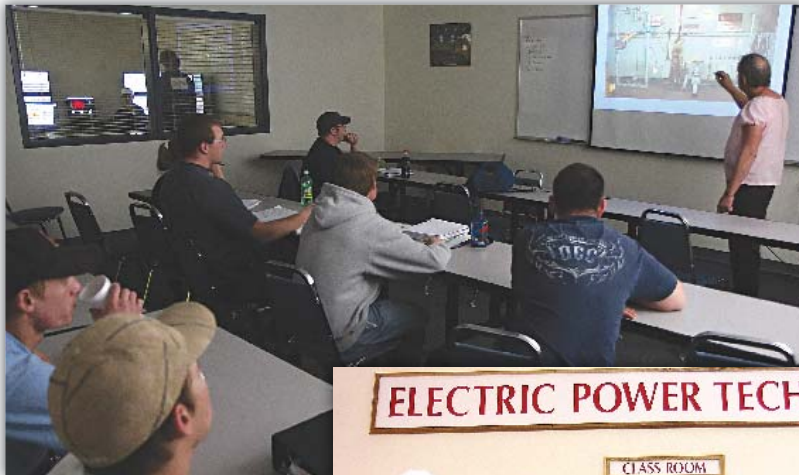
- Free tuition, books and supplies through 2009-2010
- U.S. Dept. of Labor Grant funding
- Instructors with 30+ yrs. experience each
- New hands-on lab equipment
- Employment opportunities: Power plants need graduates to staff existing and new plants being built, starting at approx. \$53,000 per year
- Field trips weekly to Dave Johnston Power Plant to train with qualified operators
- Partnerships with PacifiCorp, Wyoming Workforce Center, and Natrona County School District
- PacifiCorp, as a partner in program, provides instruction and speakers from the Dave Johnston Power Plant

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## Employment opportunities

Graduates will have excellent career opportunities as power plant operators. Approximately 50 percent of current employees at Wyoming power plants will retire in the next 10 years, resulting in a tremendous loss of experience and knowledge that must be filled with an educated work force. Three new power plants are also being built in Wyoming in the near future that will need to be staffed. These will be high paying careers with excellent benefits.

As Power Plants emphasize automation and productivity, we believe one key strategy is to train power plant operators so that they will have the resources to manage a variety of critical situations they may face on the job. According to the U.S. Department of Labor, "persons with college training in advanced technologies will have the best opportunities." The training this partnership has designed will: (1) address the shortage of operators as the workforce ages and retires, and (2) give workers the opportunity to advance up the career ladder from auxiliary operator to control room operator and eventually to management opportunities.



## Curriculum: Electric Power Technology

### Major Requirements:

- Electrical Circuits
- Electrical Concepts Lab
- Basic Hydraulics
- Electric Power
- Power Plant Water Treatment
- Blueprint Reading
- Power Plant Orientation
- Power Plant Supply & Control I & II
- Power Plant Maintenance
- General Welding
- Co-Op Work Experience
- Industrial Safety