



# Power Operations

EMPHASIS: Energy Technology/Power Operations

DEGREE: Associate in Applied Science

**Purpose:** The Power Operations AAS Degree program prepares students to compete for employment in the Power Generation Industry. Centralia College is designated as Washington State's Center of Excellence for Energy Technology and is supported by statewide energy industry and labor leaders. The Energy Technology degree offers coursework in traditional sources of power generation as well as renewable energy and energy efficiency. The program prepares students for entry level positions such as power plant assistant control operator, technician, and other high voltage apprenticeships.

**Note:** Students thinking of transferring into an applied bachelors program, such as the Bachelor of Applied Science in Applied Management program that Centralia College offers, may need to take additional course work required for entrance:

- English Composition (5 credits) \*\* (note that English 102 and Public Speaking CMST& 202 are highly desirable, but not required)
- College-level math course (5 credits) \*\*
- Social Science course (5 credits)
- Natural Science course (5 credits)
- One additional course in English, college-level math, social science, or natural science (5 credits)

\*\* English Composition I and the college-level math class can replace the math and English course required in this degree program.

**Program Outcomes** - Students who successfully complete this program will have demonstrated the ability to:

- A. Understand and operate electrical systems.
- B. Understand the components used in the transmission of electricity.
- C. Specialize in power generating, power transmission, metering, substation operations, plant mechanics, or boiler operations.
- D. Knowledge of Energy Efficiency and hands-on experience of doing an energy audit of a home or building.
- E. Knowledge of a practice for entrance exams that are typically required for entry into the electric utility industry.

### Learning Themes:

General education outcomes at Centralia College help students, faculty, and the general public identify what learning is expected when a student has completed a degree or program. The administration, faculty, and staff have agreed upon the following five Learning Ability Themes which students can expect to encounter in most courses and by the completion of any degree or program.

### Reasoning:

The ability to extract information from data, develop ideas and solutions, establish logical progression in thinking, and problem solve using such procedures as literary analysis or the scientific methods.

### Written, Oral and Visual Communication:

The ability to make oneself understood in public, interpersonal, professional, artistic, and technical arenas.

### Exploration-Self and Others:

An awareness of the values, beliefs, customs, and contributions of persons from one's own and other traditions, ethnicities, classes, and genders.

### Resourcefulness:

The ability to adapt to change, such as technological innovations or environmental conditions.

### Responsibility:

The ability to be accountable to self, society, and the natural world.

### Estimated Quarterly Program Costs (subject to change without notice)

Tests: Accuplacer	\$15
Resident Tuition (15 credits) and fixed fees*:	\$1399
US Citizen Nonresident Tuition (15 credits) and fixed fees*:	\$1536
Non US Citizen Nonresident Tuition (15 credits) and fixed fees*:	\$3202
*Tuition is subject to change due to State Legislative actions	
Books and supplies (estimate):	\$372
Lab fees:	\$20