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Electrical Power and Control Technologies

Why Electrical Power and Control Technologies?

The Electrical Power and Control Technologies (EPCT) degree program prepares students in the electrical industry and offers an ever-increasing number and variety of employment opportunities to qualified industrial electricians.

Nationwide there is a high demand for industrial electricians. Students graduating from EPCT can expect entry-level employment with rapid upward mobility in construction, industrial electricity, electrical design, or electrical inspection.

Completion of this program satisfies all the related education requirements for electrical licensing within the State of New Hampshire. New Hampshire license holders receive reciprocity with the states of Massachusetts, Vermont, and Maine.

Potential Salary:

There is a wide range of jobs in the electrical industry. See below for the average annual salary range in NH for electrical technicians.

- Entry Level \$49,878
- Mid-Range \$67,787
- Experienced \$76,752

*New Hampshire Occupational Employment & Wages 2022 published by the NH Economic and Labor Market Information Bureau – Salaries are based on 40 hours of work, not including overtime.

Estimated Degree Program Cost:

- Year 1: \$8,923
 - Year 2: \$8,813
- for a total of \$17,736

*Costs are based on in-state tuition and do not include fees, supplies, or books. *Additional fees may apply; all prices are subject to change.

Potential Jobs/Careers

- Electrician (after completing NH state licensing requirements)
- Power Plant Operations
- Building/Machine Electrical Maintenance Technician
- Renewable Energy Electrical Technician

DEGREE Requirements

FIRST YEAR Fall Semester Credits

ETEC126L	Residential Wiring and Electrical Blueprint Reading	3
ETEC127L	Residential Wiring and Electrical Blueprint Reading Lab	2
ETEC124L	AC/DC Theory	5
ETEC141L	NEC I	2
MATH129L	Quantitative Reasoning	4
INDL120L	College Essentials	1
TOTAL		17

FIRST YEAR Spring Semester Credits

ETEC128L	Fund of Electrical Control	4
ETEC130L	Rotating Machinery	4
ETEC142L	NEC II	2
ENGL100L	English Composition	4
TOTAL		14

Total Credits for Year = 31

SECOND YEAR Fall Semester Credits

ETEC143L	NEC III	2
ETEC215L	Photovoltaics	3
ETEC240L	Stationary Machinery	4
PHYS125L	Technical Physics	3
ELECTIVE	Liberal Arts Elective	3
TOTAL		15

SECOND YEAR Spring Semester Credits

ETEC210L	Intro to Electrical Estimating and Design	3
ETEC234L	Construction Site Safety	3
ETEC235L	Programmable Controllers	3
ELECTIVE	Social Science Elective	3
ELECTIVE	Humanities/Fine Arts/ Foreign Language Elective	3
TOTAL		15

Total Credits for Year = 30

Total for A.S. Degree = 61

CERTIFICATE Requirements

ETEC126L	Residential Wiring and Electrical Blueprint Reading	3
ETEC127L	Residential Wiring and Electrical Blueprint Reading Lab	2
ETEC124L	AC/DC Fundamentals	5
ETEC128L	Fund of Electrical Control	4
ETEC130L	Rotating Machinery	4
ETEC141L	NEC I	2
ETEC142L	NEC II	2
MATH129L	Quantitative Reasoning	4
ESNT120L	College Essentials	1
TOTAL		27