



LAKES
REGION
COMMUNITY
COLLEGE

ELECTRO-MECHANICAL TECHNOLOGIES

Why Electro-Mechanical Technologies?

The Electro-Mechanical Technologies Degree at Lakes Region Community College prepares students to enter the manufacturing work force in an entry level machine technician capacity. There is a high demand nationwide for machine maintenance technicians. Students graduating EMT will have an understanding of electrical and mechanical theory and principals as well have acquired skills in troubleshooting electrical, hydraulic, and pneumatic control systems. Students will also have acquired skills in Computer Numeric Controlled (CNC) machine operations, electrical controls programmable controllers, and principles of electrical motors.

Potential Jobs/Careers:

- Maintenance Technician
- Facilities Technician
- Building Operator
- Machine Maintenance Technician
- Machine Installer
- Machine Design & Building

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 **\$40,684**
- Mid-Range **\$59,612**
- Experienced **\$67,204**

**New Hampshire Occupational Employment & Wages 2021, published by the NH Economic and Labor Market Information Bureau – Salaries are based on 40 hours of work, not including overtime.*

Estimated Program Cost:

- Year 1: \$8,382**
 - Year 2: \$6,932**
- for a total of \$15,314

**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.*

Did you know?

“My experience at LRCC has been very positive. Coming from a background in the military I had no electrical experience. The courses and instructors at LRCC did an amazing job of explaining and demonstrating the principles and skills I’ll need to complete my EMT degree and enter the workforce.”

— David Boustead
A.S. Electro-Mechanical Technologies,
Class of 2020

Degree & Certificate Requirements

DEGREE Requirements

FIRST YEAR Fall Semester		Credits
ENGL100L	English Composition	4
ETEC124L	AC/DC Theory	5
ELMT120L	Fluid Power Systems	4
ESNT120L	College Essentials	1
ELECTIVE	Humanities/Fine Arts/Foreign Language Elective	3
TOTAL		17

FIRST YEAR Spring Semester		Credits
ETEC128L	Fundamentals of Electrical Controls	4
ETEC130L	Rotating Machinery	4
MANF151L	CNC Machines I	2
MANF152L	CNC Machines I Lab	2
MATH137L	Technical Algebra & Geometry	4
TOTAL		16

Total Credits for Year = 33

SECOND YEAR Fall Semester		Credits
PHYS125L	Technical Physics	3
MANF230L	CAD/CAM	3
MANF211L	CNC Machines II	1
MANF212L	CNC Machines II Lab	2
ELECTIVE	Social Science Elective	3
TOTAL		12

SECOND YEAR Spring Semester		Credits
ETEC235L	Programmable Logic Controllers	3
ELMT210L	Mechanical Drive Systems	4
ELMT270L	Electro-Mechanical Capstone	3
OR		
ELMT280L	Electro-Mechanical Internship	3
ELECTIVE	Liberal Arts Elective	3
ELECTIVE	Open Elective	3
TOTAL		16

Total Credits for Year = 28
Total for A.S. Degree = 61

CERTIFICATE Requirements

Machine Maintenance Technician

Fall Semester		Credits
ESNT120L	College Essentials	1
MATH137L	Technical Algebra & Geometry	4
ETEC124L	AC/DC Theory	5
ELMT120L	Fluid Power Systems	4
TOTAL		14

Spring Semester		Credits
MANF151L	CNC Machines I	2
MANF152L	CNC Machines I Lab	2
ELMT210L	Mechanical Drive Systems	4
ETEC128L	Fundamentals of Electrical Controls	4
TOTAL		12

Total Credits for Certificate = 26

