**Potential Careers**

NMU’s Electrical Technology Program prepares students for employment in the following careers:

- Industrial Electrician
- Electronics Technician
- Field Service Engineer
- Relay Technician
- Substation Technician

**Additional Resources and Info**

**For Career Planning and Opportunities:**
Academic & Career Advisement Center
3302.1 C.B. Hedgcock
906-227-2971
103 Jacobetti Complex
906-227-2283
[www.nmu.edu/acac](http://www.nmu.edu/acac)

Engineering Technology
101 Jacobetti Complex
906-227-2141
[www.nmu.edu/engineering](http://www.nmu.edu/engineering)

**For Job Search, Resume and Career Information:**
Career Services
3302.3 C.B. Hedgcock
906-227-2800
[www.nmu.edu/careers](http://www.nmu.edu/careers)

**For Information about NMU Student Organizations Associated with this Major Contact:**
Center for Student Enrichment
1206 University Center
906-227-2439
[www.nmu.edu/cse](http://www.nmu.edu/cse)

**Internet Resource Links:**
- [www.careers.org](http://www.careers.org)
- [www.careerresource.net](http://www.careerresource.net)

**For Career Information with National Organizations:**
- [www.iscet.org](http://www.iscet.org) International Society of Certified Electronics Technicians

Current as of Fall 2015

Provided by:

[The Academic & Career Advisement Center](http://www.nmu.edu/acac)
## Electrical Technology

Electrical Technology is a professional career field usually involving testing, installation and maintenance of all types of electrical equipment. Graduates are employed in a variety of technical fields including: prototyping, testing, automation/robotics, instrumentation, equipment installation and maintenance. Because of their wide range of specialties and capabilities, Electrical Technologists are employable in numerous industries, and enjoy excellent starting salaries and opportunities for career advancement. NMU students can concentrate their studies on General Electronics, Industrial Electrical, or Electrical Power Technician depending on their future work interests.

### Skills and Competencies

Electrical Technologists perform a variety of important functions in industry and it is therefore important for them to be knowledgeable in a number of areas. You must not only have a good grasp of current technology but also become a self-directed learner to keep up with technological advancements. You will need to apply current knowledge and be able to adapt to and implement evolving technology. A strong background in electrical basics with area specific knowledge will allow you to be productive immediately when initially employed and able to handle new technology as it becomes available. Being able to work in teams to identify, analyze and solve technical problems in essential, as are effective communication skills.

### Course Work

This degree includes the following courses as part of the program requirements, and specific major requirements along with liberal studies and graduation requirements.

#### Core
- ET 112 DC Circuit Analysis (4 cr.)
- ET 113 AC Circuit Analysis (4 cr.)
- ET 210 Discrete Semiconductors (4 cr.)
- ET 211 Digital Electronics (4 cr.)
- IT 010 Exit Seminar (0 cr.)

#### Major Concentration (15-23 cr.)

**General Electronics Concentration (15 cr.)**
- ET 212 Advanced Linear Circuits (3 cr.)
- General ET Credits (200-level or higher) (12 cr.)

**Industrial Electrical Concentration (23 cr.)**
- ET 202 Industrial Wiring (2 cr.)
- ET 212 Advanced Linear Circuits (3 cr.)
- ET 250 Industrial Electrical Machinery (4 cr.)
- ET 252 Industrial Motor Controls (4 cr.)
- ET 311 Applied Programmable Controllers (2 cr.)
- ET 360 Process Control Systems (3 cr.)
- IT 180 Introduction to Fluid Power (3 cr.)
- IT 215 General Industrial Safety (2 cr.)

**Electrical Power Technician (17 cr.)**
- ET 180 Substation Equipment (4 cr.)
- ET 255 Transformers (4 cr.)
- ET 270 3φ Power & Equipment (4 cr.)
- ET 280 Protective Relay Systems (3 cr.)
- IT 215 General Industrial Safety (2 cr.)

Detailed course descriptions can be found at www.nmu.edu/bulletin.

### Career Development

You should begin the resume-building process as soon as you can. The Academic and Career Advisement Center can assist you with career planning, while Career Services will help you fine tune your resume and look for jobs related to your field. In the meantime, the more hands-on experience you have, the better the chances are that you will find a job. Becoming involved in a professional related internship is a way to develop your professional skills and gain experience. Your academic course work is important as well, so be sure to maintain a high grade point average.

### Additional Considerations

Electrical Technology is an Associate of Applied Science that should take four semesters or two years to complete. These credits can then be used to continue for the Electronic Engineering Technology baccalaureate degree without losing any credits or time.

### Job Outlook

The job market will increase slowly at a 7% rate in the coming year. The median salary for electrical technician workers is $40,000 to $50,000.

---

**Job Outlook**

The job market will increase slowly at a 7% rate in the coming year. The median salary for electrical technician workers is $40,000 to $50,000.