

## ELECTRIC UTILITY TECHNOLOGY

Associate in Applied Science

### Science, Technology, Engineering & Mathematics (STEM) Division

#### What's Your Goal?

If your goal is to start or improve your career in the electric utility field as an Electrical Line or Substation Worker, then completion of RACC's Electric Utility Technology Associate of Applied Science degree is a great place to start.

#### We Help You Get There With . . .

- Lecture class sizes of 33 students or fewer
- Engaging classroom experiences
- Hands-on training
- Learner-focused faculty

#### Program Description

This program is offered in partnership with FirstEnergy Service Company. It prepares students for potential employment as a line or substation worker in electric and related utility industries. Students gain knowledge and skills in AC/DC electricity, electrical circuits, electrical control wiring, wiring systems, transformers, power generation, and power distribution. In addition to classroom and laboratory instruction, students also participate in hands-on training at a local FirstEnergy electric utility company training facility. Upon successful completion of the program, students will be more employable and may command a higher starting wage rate than the typical entry-level employee in the utility industry. Completion does not guarantee employment with FirstEnergy. Enrollment in the program is restricted by a selection process conducted by FirstEnergy.

#### What You Will Learn

- The OSHA safety guidelines for the electric utility industry.
- The operation of equipment used in the maintenance and repair of electric utility systems.
- The experience and knowledge needed for a Commercial Drivers License (CDL).
- The skills to work on above ground and underground circuits and de-energized and energized circuits.

Electrical Line and Substation Workers are in high demand with an expected increase of 15% in employment in Pennsylvania from 2012 to 2022 and 190 job openings every year in the state. Employees in this profession in Pennsylvania typically have a starting salary near \$47,000 and an average salary of \$67,000 per year\*.

#### Admission Requirements

- Be a graduate of an approved secondary school or hold a high school equivalency diploma (GED®).
- Complete and submit the RACC Application for Admission.
- Take RACC placement tests in reading, writing and mathematics, which may increase the number of courses required if not placed into college-level English Composition or mathematics.

#### Want To Learn More?

- Visit [catalog.racc.edu](http://catalog.racc.edu).
- Stop by the Welcome Center in the Berks Hall lobby.
- Contact: Debbie Hettinger  
EUT Program Coordinator/Advisor  
[dhettinger@racc.edu](mailto:dhettinger@racc.edu) | 610-372-4721 ext. 5130
- Get financial aid help at [financialaid@racc.edu](mailto:financialaid@racc.edu) or 610.607.6225

#### Course Completion Information

- Students must be accepted into FirstEnergy's Power Systems Institute program and meet the following additional requirements in order to be considered for the program: Technical Evaluation, Physical Capabilities Assessment, Background Check, DOT Medical Examiner's Certificate, Potential Drug Test, Qualifying School and an Interview.
- The number of students who can be accepted into FirstEnergy's Power Systems Institute is limited due to operational staffing needs.
- Students will need to complete the RACC placement exams for reading, writing and mathematics to be considered RACC degree-seeking students.

#### Career Outlook

\*onetonline.org



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610.607.6224 | 800.626.1665 | [www.racc.edu](http://www.racc.edu)

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“The Schmidt Training and Technology Center taught me how to work with electrical components and also how to work with electric motor controls. It was a nice weekly schedule of having half of the week in a training atmosphere and the other half in the classroom for technical instruction. After going through the two-year program, I walked out with a solid career and a degree in applied sciences.”

~ Nate Hasenauer

| Required Program Course Schedule |  |           |
|----------------------------------|--|-----------|
| FIRST YEAR                       |  |           |
| <b>Fall Semester 1</b>           |  |           |
| EUT 100                          | Electric Utility Technology I - Line*        | 6         |
| <b>OR</b>                        |  |           |
| EUT 101                          | Electric Utility Technology 1 - Substation*  |           |
| IFT 110                          | Microcomputer Applications                   | 3         |
| MAT 110                          | Algebra II                                   | 3         |
| ORI 103                          | College Success Strategies                   | 3         |
|                                  |  | <b>15</b> |
| <b>Spring Semester 1</b>         |  |           |
| COM 121                          | English Composition                          | 3         |
| EUT 110                          | Electrical Systems & Control Wiring          | 4         |
| EUT 120                          | Electric Utility Technology II - Line*       | 6         |
| <b>OR</b>                        |  |           |
| EUT 121                          | Electric Utility Technology II - Substation* |           |
| PHY 150                          | Applied Physics                              | 4         |
|                                  |  | <b>17</b> |
| <b>Summer Session</b>            |  |           |
|                                  | Field Experience*                            |           |

| SECOND YEAR              |   |           |
|--------------------------|---|-----------|
| <b>Fall Semester 2</b>   |   |           |
| COM 141                  | Technical Writing                             | 3         |
| EUT 130                  | Transformers, Power Generation & Distribution | 4         |
| EUT 200                  | Electric Utility Technology III - Line*       | 6         |
| <b>OR</b>                |   |           |
| EUT 201                  | Electric Utility Technology III - Substation* |           |
| PSY 120                  | Interpersonal Relations & Communications      | 3         |
|                          |   | <b>16</b> |
| <b>Spring Semester 2</b> |   |           |
| ENV 130                  | The Environment                               | 3         |
| EUT 220                  | Electric Utility Technology IV - Line*        | 6         |
| <b>OR</b>                |   |           |
| EUT 221                  | Electric Utility Technology IV - Substation*  |           |
| PHI 275                  | Introduction to Ethics                        | 3         |
| SOC 130                  | Sociology                                     | 3         |
|                          |   | <b>15</b> |

\* Indicates course is held off campus through FirstEnergy's Power Systems Institute.



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