



<http://www.lcctc.edu>

Electrical and Power Transmission Installers

CIP – 46.0399

Instructor: Mr. Eric M. Derr

Email: ederr@lcctc.k12.pa.us

QUESTIONS?

Contact the School Counselors:

Theresa Tobias: ttobias@lcctc.edu

Kelly Flowers: kflowers@lcctc.edu

Every Learner, Every Day, Career-Ready in Every Way!

Lebanon County Career and Technology Center

Mission Statement

The Mission of Lebanon County Career and Technology Center is to provide all students with quality career and technical education that prepares students for high skill, innovative, and in demand occupations to be career ready in a global economy.

Our Vision

The Vision of the Lebanon County Career and Technology Center is to lead the transformation and expansion of career and technical pathways, continuously improving and diversifying educational offerings, bridging the gap between evolving industries and skilled talent.

Every Learner, Every Day, Career-Ready in Every Way!

Electrical Technology

Program Description: An instructional program that prepares individuals to apply technical knowledge and skills necessary to install, operate, maintain and repair electrically energized residential, commercial and industrial systems, and DC and AC motors, controls and electrical distribution panels. Instruction emphasizes practical application of circuit diagrams and use of electrical codes and includes blueprint reading, sketching, and other subjects essential for employment in the electrical occupations. Reading and interpretation of commercial and residential construction wiring codes and specifications, installation and maintenance of wiring, service and distribution networks within large construction complexes are also critical components of the program.

Two Year Half-Day Program

Year One: 8:00am – 10:25am (36 weeks – 3 credits)

Year Two: 11:25am – 2:00pm (36 weeks – 3 credits)

Program Costs:

Students are required to purchase the following at an estimated cost of \$600.

- Uniform shirts
- Sturdy work pants (jeans or canvas pants such as Dickie's or Redcap)
- Custom Leathercrafts CLC 140XL Pro Frammer work gloves
- ANSI Z-87.1+ rated safety glasses
- Ankle-length leather work boots
- 3 Ring Binder (1")
- Single-subject notebook
- Pens, pencils, etc.
- Scientific Calculator (TI-30Xa or better)
- Klein electrician's toolkit (Specified by instructor, and supplied & purchased by students through Lebanon County Career & Technology Center)

Job Titles – Career Pathways (Find online at <http://www.onetonline.org>) :

- 47-2111.00 - Electrician
- 47-3013.00 - Helpers—Electricians
- 49-9051.00 - Electrical Power Line Installers and Repairers
- 49-2094.00 - Electrical and Electronics Repairers, Commercial and Industrial Equipment
- 47-2231.00 - Solar Photovoltaic Installers
- 17-3023.00 - Electrical and Electronic Engineering Technologists and Technicians
- 27-4015.00 - Lighting Technicians

CTC Knowledge Transfers to College Credits at: (www.collegetransfer.net select search and SOAR credits at the bottom)

- Harrisburg Area Community College

Certifications Available

NOCTI

National Occupational Competency Testing Institute (NOCTI) provides industry-based credentials and partner industry certifications for students enrolled in career and technical education programs.

PDE and Local Credentials and Certifications

CPR/First Aid/AED
American Ladder Institute
OSHA-10 Construction
Snap-on Digital Multimeters
NC3 Rule and Tape Measurements

About Your Instructor

Instructor Name: Mr. Eric M. Derr
Hire Year: 2020
Email Address: ederr@lcctc.k12.pa.us

Education

Penn State University – CTE I Certification
Commonwealth of Pennsylvania – ABC Keystone Chapter Electrical Apprenticeship
Millersville University – Communication Coursework

Certifications and Awards

OSHA-10 Construction
American Red Cross CPR/First Aid/AED
NABCEP Entry-Level Solar Installer Certification
Excellence in Education Award 2022
Excellence in Education Award 2024
NFPA 70E Electrical Safety in the Workplace
Level 20 Electrical Wizard

Work Experience

Quality Electric – Apprentice Electrician
MidState Mechanical & Electrical – Electrician
Brubaker, Inc. – Electrician
IBEW Local 143 – Journeyman Wireman
Wilco Electric – Electrical Foreman
Stoner Electric – Electrical Foreman

Electrical Technology Behavior and Safety Procedures

1. Read, understand, and follow the LCCTC Student handbook.
 - a. Follow Attendance guidelines and absence procedures.
 - b. Follow shop and school dress codes.
 - c. Follow ALL safety rules.
2. Be prepared with materials (pencil, paper, etc.) necessary for each day.
3. Cooperate with others and work as a team. Respect fellow students and staff each day.
4. Work with diligence, display initiative, and have a positive attitude.
5. Complete all assigned tasks and assignments, doing your very best.
6. Strive to achieve industry-related certifications.
7. Make responsible decisions that positively affect your career.

Electrical Technology Tools & Equipment (major focus tools/equipment)

The following is a list of tools and equipment that students will receive instruction on:

- Basic & industry specific hand tools
- Power tools
- Conduit benders (hand and powered)
- Motor control trainers
- Fall arrest systems
- Platform lift
- Meters
- National Electric Code

Grading Scale

The LCCTC grading system incorporates three components: competencies (skill— 33.3%), career skills (work ethic— 33.3%), and theory (knowledge—33.3%). Each academic class implements a performance evaluation/student grading system that incorporates career skills (work ethic), and theory (knowledge). Each component is weighted equally.

Please refer to the Student Handbook, available on the school website at

<http://www.lcctc.edu> for a complete list of grading components.

Progress Reports

Students will receive a “Progress Report” each mid-quarter through the mail for any student with a 70% or less, and a “Report Card” will be given to each student at the end of each quarter. It is the student's responsibility to share this information with their parents/guardians. Both reports will utilize student performance data obtained from competencies, career skills, and theory grades.

Please Note: 40% is the minimum grade for the first 3 marking periods. However, students with excessive absences may be assigned an earned grade with administrative approval.

There is no minimum grade for the 4th marking period.