

ELECTRICAL TECHNOLOGY

Campus Location

Lemley Campus

Occupational Focus

The job opportunities within the electrical industry are not only many, but also varied and lucrative, because the operation of almost every household, business and industry is tied directly to electrical components. Tulsa Tech's Electrical Technology program takes you from the basics of electrical theory and applications through to actual employment in the electrical industry and all within the standards of the National Electrical Code (NEC). Students will work in a self-paced, flexible program and under the direction of a licensed electrical contractor. You will not only explore the basics of electrical circuits, testing and measurement equipment, breakers and panels and grounding systems, but also learn phases of residential, commercial and industrial wiring installations, design, equipment, and components. Other topics include tele-data communication cabling and connections, audio systems, computer controllers, and fire and security alarm systems. You may choose to focus in one area for advanced laboratory studies and then apply hours toward licensing requirements leading to business ownership or toward an associate degree and beyond.

For information concerning working conditions, physical requirements, employment and job outlook please refer to the 2008-09 Occupational Outlook Handbook (OOH) at <http://www.bls.gov/oco/>.

Who Can Attend?

High school students
Adults

Prerequisite(s)

None

Scheduling Information

Two year program beginning in August
Check with Admissions Office at 918.828.5260 for start dates.

Three hours daily

--Morning session - 7:55 - 10:55 am

--Afternoon session - 11:55 - 2:55 pm

Career Majors

Residential Electricians Assistant - 780 Hours*

This career major will introduce students to the safety practices, use of hand and power tools/equipment and electrical theory related to the electrical industry.

Security and Alarm System Technician - 900 Hours*

This career major will introduce students to the skills required of a Security and Alarm Systems Technician, safety practices and security and alarm systems tools and equipment uses/operations.

Commercial Electricians Assistant - 870 Hours*

This career major will introduce students to the skills required of a Commercial Electricians Assistant, safety practices and commercial electrician's tools and equipment uses/operations

Industrial Electricians Assistant - 870 Hours*

This career major will introduce students to the skills required of an Industrial Electricians Assistant, safety practices and industrial electricians tools and equipment uses/operations.

**Career major, courses and hours are subject to change without notice*

Tuition

No charge for high school students within Tulsa Tech District.

Adult - \$2.50/hour*

**Tuition subject to change without notice.*

Books/Supplies

No textbook charge for high school students within Tulsa Tech District.

Adult books/ \$40; state and local apprenticeship registration/\$46

College Credit

College credit is available for the majority of Tulsa Tech's full-time programs through Rogers State University, Oklahoma State University-IT or Tulsa Community College. Advanced standing credit may also be granted for some of our programs. The number of hours varies depending on the program length, the college granting the credit, and the student's plan of study. Check with your Tulsa Tech counselor for more information.

ELECTRICAL TECHNOLOGY

Credentials/Industry Certifications

National Center for Construction Education and Research

Employment Opportunities

Residential electrician, commercial electrician, industrial electrician, service electrician, fire alarm installer, computer network cable installer, maintenance electrician, cable TV installer, elevator technician, control technician, high voltage lineman, electrical inspector, electrical business owner

Tulsa-Area Salary

\$11.44 - \$17.40/hour

Financial Aid

Scholarships are available for eligible students. Call 918.828.5280 or email financialaid@tulsatech.org for detailed information.

Application Process

High school students see Tulsa Tech career counselor or sending school counselor.

Adults contact Tulsa Tech Admissions and Enrollment office at 918.828.5260, email admissions@tulsatech.org or check out our website at www.tulsatech.edu.

Courses by Career Majors

Residential Electricians Assistant - 780 Hours*

Workforce Staging
General Construction Safety and First Aid
Electrical Safety in Construction
Residential Wiring Methods I
Electrical Power and Hand Tools and Equipment in Construction
Electrical Theory in Construction
National Electric Code in Construction I
Electric Schematic and Blueprint Reading in Construction
Residential Wiring Methods II
Residential Wiring Methods III
Direct Current Circuits in Construction
National Electric Code In Construction II
Residential Wiring Methods IV
Alternating Current Circuits in Construction

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Courses by Career Majors

Security and Alarm System Technician - 900 Hours*

Workforce Staging
General Construction Safety and First Aid
Electrical Safety in Construction
Electrical Power and Hand Tools and Equipment in Construction
Electrical Theory in Construction
National Electric Code in Construction I
Electrical Schematic and Blueprint Reading in Construction
Direct Current Circuits in Construction
National Electric Code in Construction II
Alternating Current Circuits in Construction
Commercial Wiring Methods I
Commercial Wiring Methods II
Alarm System Installations
Security System Installations

Commercial Electricians Assistant - 870 Hours*

Workforce Staging
General Construction Safety and First Aid
Electrical Safety in Construction
Electrical Power and Hand Tools and Equipment in Construction
Electrical Theory in Construction
National Electric Code in Construction I
Electrical Schematic and Blueprint Reading in Construction
Direct Current Circuits in Construction
National Electric Code in Construction II
Alternating Current Circuits in Construction
Motor Theory and Operation in Construction
Motor Control Wiring in Construction
Commercial Wiring Methods I
Electrical Distribution in Construction
Commercial Wiring Methods II
Programmable Logic Controllers In Construction

Industrial Electricians Assistant - 870 Hours*

Workforce Staging
General Construction Safety and First Aid
Electrical Safety in Construction
Electrical Power and Hand Tools and Equipment in Construction
Electrical Theory in Construction
National Electric Code in Construction I
Electric Schematic and Blueprint Reading in Construction
Direct Current Circuits in Construction
National Electric Code in Construction II
Alternating Current Circuits in Construction
Motor Theory and Operation in Construction
Motor Control Wiring in Construction
Industrial Wiring Methods in Construction
Electrical Distribution in Construction
Programmable Logic Controllers in Construction

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