

Electrical Technology

Description

The job opportunities within the electrical industry are not only many, but also varied and lucrative. The operation of almost every household, business and industry machinery & equipment 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, fire and security alarm and solar 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.

- Design & install electrical wiring systems for industrial, residential & commercial applications
- Use blueprints, specifications, & engineering drawings to provide customers with safe & efficient electrical operation
- Create, design, & engineer electrical equipment including automated machinery & solar photovoltaic systems

College Credit

College credit may be available through TCC, RSU, or OSU-Institute of Technology. For more details call the college relations office at 918-828-5205. All college credit is awarded by the college/university.

Credential/Industry Certifications

National Center for Construction Education & Research: Construction Core & Electrical Level I

Career Majors/Courses

Commercial Electrician's Assistant

Courses

First year

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
 Electrical Wiring Installations I
 National Electric Code In Construction I
 Electrical Wiring Installations II
 Electrical Schematic and Blueprint Reading in Construction
 Direct Current Circuits in Construction
 Commercial Wiring Methods I

Second Year

Alternating Current Circuits in Construction
 Electrical Wiring Installations III
 Motor Theory and Operation in Construction
 Motor Control Wiring in Construction
 Commercial Wiring Methods II
 Electrical Distribution in Construction
 National Electric Code In Construction II
 Introduction to Solar Photovoltaics
 Programmable Logic Controllers In Construction

Employment Opportunities

Tulsa Tech's Career Placement Services team builds partnerships with Tulsa area businesses & industry to create opportunities for work-based experiences and job placement. Job search assistance is provided before and after graduation. Services include with employment information, resume building, refining interview skills and life-time access to the Tulsa Tech Job Connect database. Call Career Placement Services at 918-828-5270 or visit www.tulsatech.edu/jobconnect / email jobconnect@tulsatech.edu.

2010-2011 year completion & placement data per Oklahoma Department of Career and Technical Education guidelines:

- Total Enrolled: 40
- Completion: 31%
- Completed on-time: 100%
- Job Placement: 76%
- Returning Students to 2nd Year: 28%
- OPE ID: 005311 / CIP: 46.0302

Area Salary

For information concerning working conditions, physical requirements, employment and job outlook please refer to the Occupational Outlook Handbook (OOH), 2010-11 Edition at <http://www.bls.gov/oco/>.

Salary information can be found at The Occupational Information Network (O*NET) Resource Center at <http://www.onetonline.org/>. O*NET-SOC Code: 47-2031.00

Who Can Attend?

High school students / Adults

Tuition/Fees/Books

- Tuition: \$1,575*
- Lab & Required Fees: \$141.25*
- Additional Required Costs: \$600**
- Optional Fees: \$253

*High school students living in the Tulsa Tech school district are not charged tuition, fees & books.

**Additional required costs: books, equipment, tools, uniforms & supplies.

Scheduling Information

H.S. / 2 school years:

August - May

H.S. sessions:

7:45 - 10:45 A.M. / 11:50 - 2:50 P.M.

Adults / 21 months Adult sessions:

1/2 Day: 7:45 - 10:45 A.M. / 11:50 - 2:50 P.M.

Adults / 9 months Adult sessions:

Day: 7:45 A.M. - 2:50 P.M.

Check with Admissions Office at 918-828-5260 for start dates.

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Application Process

Apply ON-LINE at www.tulsatech.edu/apply. Applications can also be obtained in the counseling offices on any of the campuses; at the Career Services Center located on the Memorial Complex; or by calling 918-828-5200.

Financial Aid

Financial assistance is available through several options at Tulsa Tech. For the most up-to-date information, call 918-828-5280 or visit www.tulsatech.edu. Some career majors are eligible for federal financial aid. To apply, go to: www.fafsa.ed.gov.

Campus Location

Lemley Campus

3420 South Memorial Drive
Tulsa, OK 74145-1390
(918) 828-1000
FAX (918) 828-1009
