Electrical Systems Technology
Diploma Program
ES12

Click here to jump to Program Description, Admissions Requirements, and Financial Aid.

Curriculum

Basic Skills – Total of 8 Hours
- ENGL 1010 Fundamentals of English I (3)
- EMPL 1000 Interpersonal Relations (2)
- MATH 1012 Foundations of Mathematics (3)

Program-Specific Core – Total of 25 Hours
- IDFC 1007 Industrial Safety Procedures (2)
- ELTR 1010 Direct Current Fundamentals (3) - OR - IDFC 1011 Direct Current I (3) - OR - IDSY 1101 DC Circuit Analysis (3)
- ELTR 1020 Alternating Current Fundamentals (3) - OR - IDFC 1012 Alternating Current I (3) - OR - IDSY 1105 AC Circuit Analysis (3)
- ELTR 1060 Elect Prints Schematics Sys (2)
- ELTR 1080 Commercial Wiring I (5)
- ELTR 1090 Commercial Wiring II (3)
- ELTR 1180 Electrical Controls (4)

Occupational-Related Electives – Choose 3 Hours
- BUSN 1410 Spreadsheet Concepts & Apps (4)
- ELTR 1205 Residential Wiring I (3)
- ELTR 1210 Residential Wiring II (3)
- ELTR 1220 Industrial PLCs (4)
- ELTR 1250 Diagnostic Troubleshooting (2)
- ELTR 1270 NEC Industrial Applications (4)
- ELTR 1500 Elec Sys Tech Intern/Practicum (3)
- ELTR 1510 Electrical Worker (3)
- ELTR 1520 Grounding & Bonding (2)
- ELTR 1530 Conduit Sizing (2)
- ELTR 1540 Wire Pulling & Codes (3)

Choose a Specialization – Total of 10 Hours

Electrical Construction & Maintenance Specialization
- ELTR 1205 Residential Wiring I (3)
- ELTR 1210 Residential Wiring II (3)

Industrial Electrical Technology Specialization
- ELTR 1220 Industrial PLCs (4)
- ELTR 1250 Diagnostic Troubleshooting (2)
- ELTR 1270 NEC Industrial Applications (4)

Additional Occupational-Related Electives - Choose 4 Hours

Total: 43 Hours

For more information about our graduation rates, the median debt of students who complete programs, and other important information please visit our website: http://www.laniertech.edu/GE.aspx.
**Electrical Systems Technology**

**Diploma Program**

**ES12**

**Program Description**
The Electrical Systems Technology program provides instruction in the inspection, maintenance, installation, and repair of electrical systems in the residential, commercial, and industrial industries. A combination of theory and practical application is emphasized to develop academic, technical, and professional knowledge and skills. Program graduates receive a diploma in Electrical Systems Technology with a specialization in either Electrical Construction and Maintenance or Industrial Electrical Technology.

**Program Specific Information**
Students are accepted every semester based on course and space availability.

**Program Length & Availability**
4 Semesters
Campus Availability: Dawson

**Admissions Requirements**
- Must be 16 years of age.
- High school diploma or GED is required prior to admission.  
  *(Official transcripts or GED scores must be submitted from all colleges and/or high schools attended for credit.)*
- ACCUPLACER Testing, or submit SAT, ACT, CPE, COMPASS, or ASSET test scores.

**Financial Aid**
This program is eligible for the Pell Grant and may be eligible for Institutional and State Financial Aid. Contact a Financial Aid Counselor for eligibility requirements and application materials.

[Click here to jump back to Curriculum](#)