

# Electrical Systems Technology

## Diploma Program

### ES12

Updated: 3/10/2017  
Effective Term: 201716

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## 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 *Electrical Systems Basics I* (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 Elective – Choose 3 Hours

### Choose a Specialization – Total of 10 Hours

#### Electrical Construction & Maintenance Specialization

- ELTR 1205 *Residential Wiring I* (3)
- ELTR 1210 *Residential Wiring II* (3)

Additional Occupational-Related Electives - **Choose 4 Hours**

#### Industrial Electrical Technology Specialization

- ELTR 1220 *Industrial PLCs* (4)
- ELTR 1250 *Diagnostic Troubleshooting* (2)
- ELTR 1270 *NEC Industrial Applications* (4)

#### Occupational-Related Electives

- 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 1525 *Photovoltaic Systems* (5)
- ELTR 1530 *Conduit Sizing* (2)
- ELTR 1540 *Wire Pulling & Codes* (3)

**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](#)

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