

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 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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