

ELECTRICAL SYSTEMS TECHNOLOGY

Electrical Systems Technology Degree - A35130

The Electrical Systems Technology curriculum is designed to provide training for persons interested in the installation and maintenance of electrical systems found in residential, commercial, and industrial facilities.

Training, most of which is hands-on, will include such topics as photovoltaic AC/DC theory, basic wiring practices, programmable logic controllers, industrial motor controls, the National Electrical Code, and other subjects as local needs require.

Graduates should qualify for a variety of jobs in the electrical field as an on-the-job trainee or apprentice assisting in the layout, installation, and maintenance of electrical systems.

Electrical Systems Technology Diploma - D35130

The Electrical Systems Technology curriculum is designed to provide training for persons interested in the installation and maintenance of electrical systems found in residential, commercial, and industrial facilities.

Training, most of which is hands-on, will include such topics as AC/DC theory, basic wiring practices, programmable logic controllers, industrial motor controls, the National Electrical Code, and other subjects as local needs require.

Diploma graduates should qualify for a variety of jobs in the electrical field as an on-the-job trainee or apprentice assisting in the layout, installation, and maintenance of electrical/electronic systems.

Residential Wiring Certificate – C35130A

Commercial Wiring Certificate – C35130B

Industrial Wiring Certificate – C35130C

Wiring Methods Certificate – C35130D

Program Sequence

First Semester

ELC 112	DC/AC Electricity.....	5
ELC 113	Residential Wiring	4
ELC 118	National Electrical Code.....	2
ELC 127	Software for Technicians.....	2

Second Semester

ELC 114	Commercial Wiring.....	4
ELC 117	Motors and Controls.....	4
ELC 119	NEC Calculations	2

Complete Wiring Methods Certificate (C35130D): ELC 113, ELC 114, ELC 118, ELC 119

Third Semester

ELC 115	Industrial Wiring.....	4
ELC 128	Introduction to PLC.....	3
Elective List I or II.....		3

Complete Electrical Systems Technology Diploma (D35130): Choose ALT 120 + ELC 112, ELC 113, ELC 114, ELC 115, ELC 117, ELC 118, ELC 119, ELC 128, ENG 110, PSY 118

Fourth Semester

BPR 130	Print Reading-Construction	3
ISC 121	Envir Health and Safety	3
MAT 110	Math Measurement and Literacy	3
Elective List I or II.....		3

Complete Residential Wiring Certificate (C35130A): BPR 130, ELC 112, ELC 113, ELC 118

Fifth Semester

ACA 220	Professional Transition	1
ELC 121	Electrical Estimating	2
ELC 134	Transformer Applications.....	2
Elective List I or II.....		3

Complete Commercial Wiring Certificate (C35130B): ELC 114, ELC 117, ELC 119, ELC 121

Complete Industrial Wiring Certificate (C35130C): ELC 115, ELC 128, ELC 134, ISC 121

General Education Academic Core Requirements

COM 120	Interpersonal Communications.....	3
ENG 110	Freshman Composition	3
HUM 121	The Nature of America	3
PSY 118	Interpersonal Psychology	3

Elective List I – Renewable Energy Track (Select 9 hours from the following courses):

ALT 120	Renewable Energy Tech	3
ELC 220	Photovoltaic Sys Tech	3
ELC 221	Adv Photovoltaic Sys Designs.....	3

Elective List II - Business Track (Select 9 hours from the following courses):

BUS 110	Introduction to Business	3
BUS 115	Business Law I	3
BUS 139	Entrepreneurship I	3

Graduation Requirements65 Credit Hours