

Electrical Systems Technology

Electrical Systems Technology Certificates (C35130)

The certificates listed below can be earned in the Electrical Systems Technology (A35130) program:

- Electrical Systems Technology Certificate Specialization in Level I - Residential Electrical (C35130-32) (p.)
- Electrical Systems Technology Certificate Specialization in Level II - Commercial Electrical (C35130-33) (p.)
- Electrical Systems Technology Certificate Specialization in Solar Photovoltaic - Level I (C35130-36) (p. 1)
- Electrical Systems Technology Certificate Specialization in Level III - Electrical Maintenance I (C35130-40) (p.)
- Electrical Systems Technology Certificate Specialization in Level IV - Electrical Maintenance II (C35130-41) (p.)

Admissions

- Completion of a high school diploma or equivalent is encouraged as the foundation of a career in this area.
- Many courses have prerequisites or co-requisites; check the Course Descriptions section for details.

Contact Information

The Electrical Systems Technology program is in the Skilled Trades Division. For more information, call [the program office at 704.330.4458](tel:704.330.4458) or [the Construction Technologies Division at 704.330.4408](tel:704.330.4408).

Electrical Systems Technology Certificate Specialization in Level I - Residential Electrical (C35130-32)

Major Requirements

WOL 110	Basic Construction Skills	3.0
ELC 112	DC/AC Electricity	5.0
ELC 113	Residential Wiring	4.0
ELC 118	National Electrical Code	2.0
BPR 130	Print Reading-Construction	3.0
Total Credits		17

Electrical Systems Technology Certificate Specialization in Level II - Commercial Electrical (C35130-33)

Major Requirements

ELC 114	Commercial Wiring	4.0
ELC 117	Motors and Controls	4.0
ELC 119	NEC Calculations	2.0
ELC 125	Diagrams and Schematics	2.0
ELC 128	Introduction to Programmable Logic Controller	3.0
Total Credits		15

Electrical Systems Technology Certificate Specialization in Solar Photovoltaic - Level I (C35130-36)

Major Requirements

ELC 112	DC/AC Electricity	5.0
ELC 113	Residential Wiring	4.0
ALT 120	Renewable Energy Technologies	3.0
ELC 118	National Electrical Code	2.0
ELC 220	Photovoltaic System Technology	3.0
Total Credits		17

Electrical Systems Technology Certificate Specialization in Level III - Electrical Maintenance I (C35130-40)

Major Requirements

ELC 115	Industrial Wiring	4.0
ELC 130	Advanced Motors and Controls	3.0
ELC 215	Electrical Maintenance	3.0
ELC 121	Electrical Estimating	2.0
Total Credits		12

Electrical Systems Technology Certificate Specialization in Level IV - Electrical Maintenance II (C35130-41)

Major Requirements

ELC 228	Programmable Logic Controllers Applications	4.0
ELC 234	Electrical System Design	3.0
ARC 225	Architectural Building Information Modeling I	2.0
WLD 112	Basic Welding Processes	2.0
WBL 111	Work-Based Learning I	1.0
Total Credits		12