



2025 - 2026

# Electrical Systems Technology

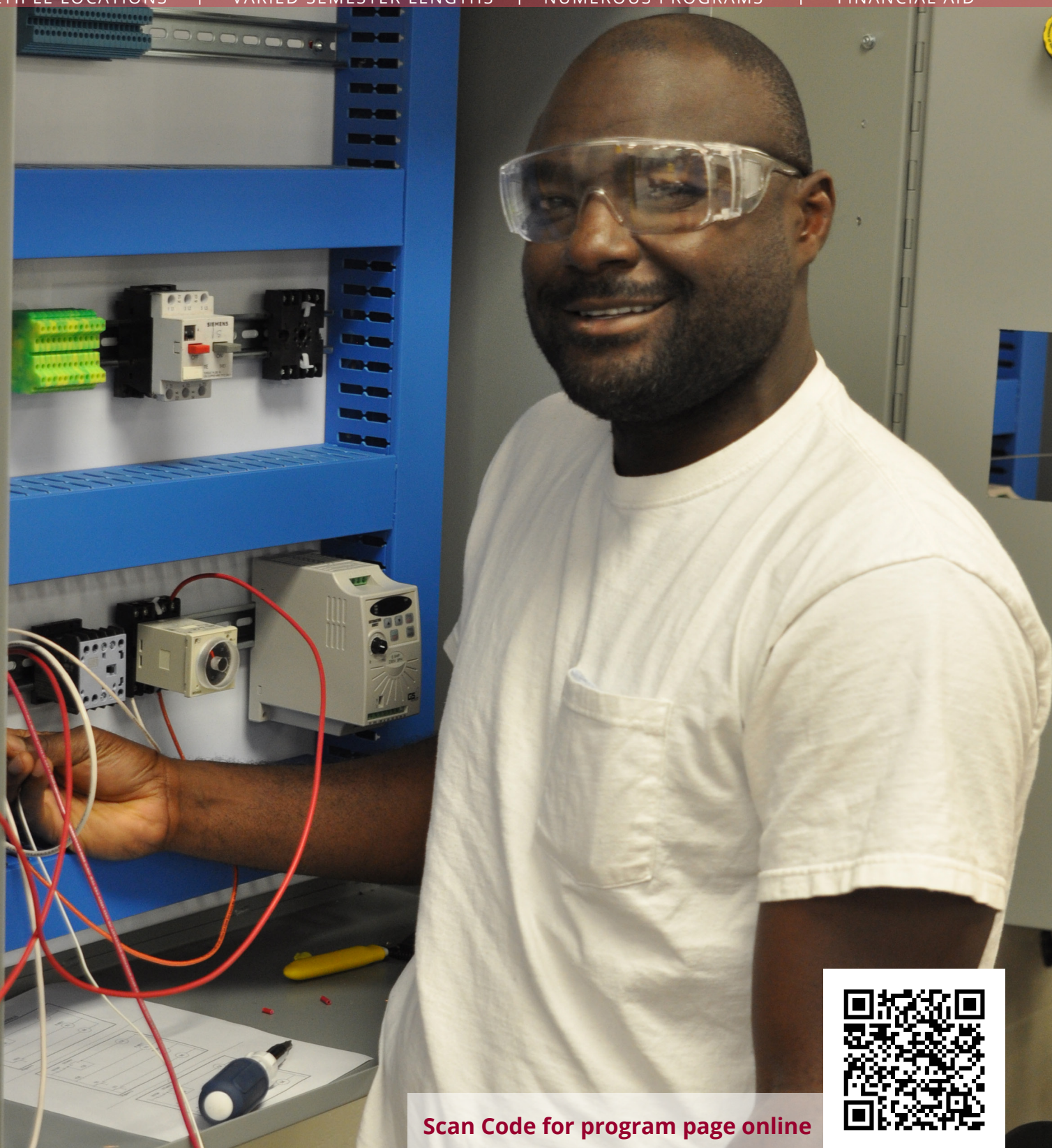
Associate in Applied Science Degrees

MULTIPLE LOCATIONS

| VARIED SEMESTER LENGTHS

| NUMEROUS PROGRAMS

| FINANCIAL AID



Scan Code for program page online

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## Electrical Systems Technology

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.

Coursework, most of which is hands-on, will include such topics as AC/DC theory, basic wiring practices, programmable logic controllers, industrial motor controls, applications of the National Electric 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.

### For More Information:

Contact Dr. Harrison Orr by email at [harrisonporr@abtech.edu](mailto:harrisonporr@abtech.edu) or by phone at 828-398-7392

### Total Cost Estimate

**Tuition per Semester (NC Resident)** \$1,216.00 (16+ credit hours)  
\$76.00/credit hour (1-15 hours)

**Computer Use and Technology Fee** \$48/semester

**Activity Fee** Fall and Spring semesters only,  
Main campus and Online, \$35.00

**CAPS Fee (Campus Access, Parking and Security)** \$20/semester

**Matriculation Fee** \$10/semester

**Student Insurance** \$2/Semester

**Additional Fees including books may incur, please check A-B Tech website for more detail:** <https://abtech.edu/program/electrical-systems-technology-aas-associate-applied-science-cost-esti>

**Have you applied for Financial aid? Please visit A-B Tech website for instructions:** <https://abtech.edu/future-students/financial-aid/applying-aid>

*Courses requiring a grade of "C" or better: ATR, CST, EGR, ELC, and IST*

	Course Prefix	Course Name	Credit Hours
First Semester (Fall)	CST 110	Intro to Construction	3
	EGR 110	Intro to Engineering Tech	2
	ELC 111	Intro to Electricity	3
	ELC 113	Residential Wiring	4
	ELC 118	National Electrical Code	2
	MAT 121	Algebra/Trigonometry	3
Second Semester (Spring)	ELC 114	Commercial Wiring	4
	ELC 115	Industrial Wiring	4
	ELC 131	Circuit Analysis I	4
	ELC 131A	Circuit Analysis I Lab	1
	ENG 111	Writing and Inquiry	3
Third Semester (Summer)	COM 231	Public Speaking	3
	ELC 117	Motors and Controls	4
	HUM 115	Critical Thinking	3
Fourth Semester (Fall)	ATR 112	Introduction to Robots	3
	ELC 213	Instrumentation	4
	ELN 260	Prog Logic Controllers	4
	PSY 150	General Psychology	3
Fifth Semester (Spring)	ELC 220	Photovoltaic Sys Tech	3
	ELC 221	Advanced PV Sys Designs	3
	ELC 228	PLC Applications	4
	ISC 121	Envir Health & Safety	3
<b>Program Totals:</b>			<b>70</b>

See advisor for WBL 111 options.

### Diploma and Certificates Available:

**Electrical Systems Technology Diploma**

**Advanced Electrical Wiring Certificate**

**Building Instrumentation & Control Certificate**

**Electrical Wiring Certificate**

**Solar Photovoltaic Energy Technology Certificate**

**Electrical Construction Certificate**

For more information, please visit:

<https://abtech.edu/programs/academic/electrical-systems-technology>