

# Electrical Technology

PHOENIX CAMPUS  
CERTIFICATE OF ACHIEVEMENT/  
ASSOCIATE OF SCIENCE DEGREE

## About The Campus

The Carrington College Phoenix campus shares space with another accredited institution. The two colleges share a 120,000 square foot facility. Carrington College students have access to 34,313 total square feet (not including shared uses) of the Student Success Center, computer labs, cafeteria and two student lounges.

The facility provides students with a simulation retail pharmacy laboratory. The campus also has lecture classrooms with ceiling-mounted LCD projectors; a learning laboratory; science labs; and a medical library equipped with reference materials, textbooks and journals. The Carrington library website offers online resources and professional organization information.

## About This Program

Carrington's Electrical Technology<sup>1</sup> program is approximately 40 weeks in length (certificate) or 64 weeks in length (degree) and provides a framework of electrical knowledge and skills that can be adapted in the electrical trade industry. Upon completion of the Electrical Technology program, the student should be able to install, maintain, and repair electrical equipment and systems in a safe, competent, and professional manner.

The program culminates in a Certificate of Achievement or an Associate of Science degree (online<sup>2</sup>) in Electrical Technology.

## Careers in Electrical Technology

Graduates of Carrington College's Electrical Technology program are prepared for employment in numerous electrical and related trades such as:

- Electrician
- Inside Wireman
- Fire Alarm Technician
- Security Installer
- Maintenance Electrician

<sup>1</sup> Applicants for jobs in the electrical technology field may be subject to pre-employment screenings such as, but not limited to, criminal background checks, drug and/or alcohol testing, physical and/or psychological examinations and credit check.

<sup>2</sup> Degree completion courses are provided in an online format and the degree is awarded from the Phoenix campus.

## Knowledge and Skills

Upon completion of the Electrical Technology program, graduates will be able to:

- Discuss theories of electrical circuitry and relate these concepts to practical applications.
- Apply proper procedures for the installation, operation, maintenance and repair of residential, commercial, and light industrial wiring, electrical equipment and systems.
- Demonstrate proper usage of the basic tools of the trade.
- Demonstrate the basic use and application of the National Electrical Code.
- Create effective reports and documents, electronically and in writing.
- Apply advanced electrical concepts and critical thinking skills to interpret and create blueprint drawings for residential, commercial and light industrial facilities.
- Adhere to national, state, and local safety practices used by technicians working in the electrical industry.

## General Education Coursework

Students in Carrington College's certificate programs complete technical coursework. In our degree programs, students also complete a broad base of online general education courses focusing on:

- English writing and composition
- Computer literacy
- Mathematics
- Social sciences



Visit [Carrington.edu](http://Carrington.edu) or call:  
602-427-0722

# Electrical Technology

PHOENIX CAMPUS  
CERTIFICATE OF ACHIEVEMENT/  
ASSOCIATE OF SCIENCE DEGREE

## Electrical Technology Certificate of Achievement Program Requirements

Technical Courses		Lecture Hours	Lab Hours	Practical Hours	Semester Credit Hours
ET 100	OSHA Standards for the Construction Industry	45	0	0	3
ET 110	Electrical Conduit Bending	30	15	0	2
ET 120	Blueprint Reading for Electricians	60	30	0	5
ET 130	Technical Math and Electric Circuits	120	60	0	10
ET 200	Commercial Wiring	60	30	0	5
ET 210	Industrial Wiring	60	30	0	5
ET 200	Residential Wiring	60	30	0	5
ET 230	Programmable Logic Controllers/Industrial Electronics	60	30	0	5
<b>Total for Certificate</b>		<b>495</b>	<b>225</b>	<b>0</b>	<b>40</b>

Approximate time to complete certificate program: 40 weeks (not including breaks)

## Electrical Technology Associate of Science Program Requirements

Graduates of the Electrical Technology Certificate of Achievement program are eligible to complete the Associate of Science degree program via the online degree-completion option<sup>1</sup> shown below:

Online General Education Courses		Lecture Hours	Lab Hours	Semester Credit Hours
CLT 100	Computer Literacy	45	0	3
ENG 101	English Writing and Composition	45	0	3
MAT 101	Principles of Mathematics	45	0	3
PSY 101	Introduction to Psychology	45	0	3
HUM 200	Ethics	45	0	3
SOC 101	Introduction to Sociology	45	0	3
SPH 205	Interpersonal Communication	45	0	3
<b>Total for General Education Courses</b>		<b>315</b>	<b>0</b>	<b>21</b>
<b>Total for Certificate</b>		<b>495</b>	<b>225</b>	<b>40</b>
<b>Total for Degree</b>		<b>810</b>	<b>225</b>	<b>61</b>

<sup>1</sup> Degree-completion program length: 24 weeks (not including breaks); Combined certificate and degree-completion option length: 64 weeks (not including breaks)

<sup>2</sup> Degree completion courses are provided in an online format and the degree is awarded from the Phoenix campus.

## Technical Coursework

Carrington College uses technologies and equipment to support the learning process such as industry-standard equipment and software.

Carrington's academic catalog, available at [carrington.edu/carrington-college/catalog](http://carrington.edu/carrington-college/catalog), provides the most current and detailed program information, including admission and graduation requirements.

## Accreditation & Disclosures

Carrington College is accredited by the Accrediting Commission for Community and Junior Colleges, Western Association of Schools and Colleges (ACCJC/WASC), 10 Commercial Blvd., Suite 204, Novato, CA 94949, 415-506-0234, an institutional accrediting body recognized by the Council for Higher Education Accreditation and the U.S. Department of Education. Additional information about accreditation, including the filing of complaints against member institutions, can be found at [accjc.org](http://accjc.org).

For comprehensive information on Carrington's accreditation, licenses and approvals, visit [carrington.edu/accreditation](http://carrington.edu/accreditation).

Visit [carrington.edu/student-consumer-info/](http://carrington.edu/student-consumer-info/) for important information on program outcomes.

Program availability varies by location. Carrington College reserves the right to update information as it becomes available. For the most updated information, visit [carrington.edu](http://carrington.edu).

## Phoenix Campus

2149 W. Dunlap Ave.  
Phoenix, AZ 85021  
Phone: 602-427-0722

©2020 Carrington College. All rights reserved.

CMP\_PRO\_ET\_PHX\_200226