



CERTIFICATE

**Certificate in Construction Technology - Electricity**

**Total Credit Hours:** 33

**About** Certificate in Construction Technology - Electricity

The Certificate in Construction Technology Program will prepare students for the current local and global job market with entry-level skills needed for any of the following fields: carpentry; electricity; heating, ventilation, and air conditioning (HVAC); masonry; plumbing; reinforcing metal worker; and welding. All students must successfully pass four (4) core courses (technical related requirements) with a “C” or better before enrolling in one (1) of the seven (7) concentration areas.

[REQUIREMENTS FOR CERTIFICATE](#)

<b>Electricity</b>		
<b>Major Requirements</b>		
<b>Course</b>	<b>Course Name</b>	<b>Credits</b>
AE103	Basic Blueprint Reading	3
CT100	Introduction to Construction Trades	3
CT140	Industrial Safety	3
CT 165A	Electricity Level I	4
CT 165B	Electricity Level II	4
CT 165C	Electricity Level III	4
CT 165D	Electricity Level IV	4
CT292	Construction Practicum	3
HL135	Heartsaver First Aid CPR AED	1
MA094	Mathematics for the Trades	4
<b>Certificate Total Minimum</b>		<b>33</b>

[GENERAL REQUIREMENTS FOR CERTIFICATE](#)

# General Requirements for Certificates

Effective fall Semester 2003, several academic policy changes were implemented to ensure that students are adequately prepared to meet business and industry standards. All Undeclared or newly Declared Students enrolled in regularly scheduled postsecondary courses must be enrolled in or must have completed developmental coursework for Math and English or have successfully placed into post-secondary Math and English (or equivalent).

Students must fulfill the English general education requirement by the time they have enrolled in 12 credits of classes. This means that students may take only nine (9) credits before they must begin meeting the general education requirements. All declared students in Certificate programs will be required to successfully complete minimum general education course requirements. For more information, refer to the Admissions Information, General Education Policy section of this catalog.

## A. General Education Requirements

Students must demonstrate proficiency in reading, writing, understanding and speaking English as indicated by one of the following:

- Test out of the English Placement Test (or equivalent), or
- Satisfactory completion of EN097 courses and
- Test out of the Math Placement Test (or equivalent), or
- Satisfactory completion of MA098 course

\*Students in the Certificate of Construction Technology program can successfully complete their math requirements with MA094 Mathematics for the Trades in lieu of MA098 Intermediate Algebra.

B. Major Requirements. Total Major Requirements vary by program. Minimum Total Credits Required for a Certificate is 30 credits.

\* No course may be counted for both Major and General Education requirements.

\*\* Placement testing is not mandatory for admission to the College. Completion of placement testing or equivalent, however, is required for enrollment into English and mathematics courses. Therefore, students who plan to enroll full-time in a program should take the placement test to be eligible for a full load of courses.

2024-2025 College Catalog

---

## [Student Learning Outcomes](#)

Upon successful completion of the Certificate in Construction Technology program, students will be able to:

1. Demonstrate basic skills needed to function as an entry-level worker in at least one construction trades concentration area in accordance with industry safety standards: carpentry; electricity;

- heating, ventilation, and air-conditioning (HVAC); masonry; plumbing; reinforcing metal worker; or welding.
2. Exhibit entry-level knowledge in chosen construction trades concentration area.
  3. Demonstrate professionalism as related to the construction trades industry.

**Check out some of these amazing Certificate in Construction Technology - Electricity courses...**

#### **CT165C Electricity Level III**

This course introduces students to core principles in electricity, providing them with the foundational knowledge necessary for more advanced study and experiential development of skills in Construction Trades. This course focuses on the use, care, safe operations and maintenance of electrical tools and equipment, supplies and materials; the development of an appropriate attitude as related to professional electrical work, and the acquisition of knowledge and information essential for success in initial pursuit of a career as an electrician. Specific emphasis will be placed on students' development of knowledge and skills related to alternating current, motors, grounding, conduit bending, boxes and fittings.

[+ More Info](#) [1]

#### **CT165B Electricity Level II**

This course introduces students to core principles in electricity, providing them with the foundational knowledge necessary for more advanced study and experiential development of skills in Construction Trades. This course focuses on the use, care, safe operations and maintenance of electrical tools and equipment, supplies and materials; the development of an appropriate attitude as related to professional electrical work, and the acquisition of knowledge and information essential for success in initial pursuit of a career as an electrician. Specific emphasis will be placed on students' development of knowledge and skills related to National Electric Code (NEC), raceways, boxes and fittings, conductors, electrical blueprints, and commercial, industrial and residential electrical wiring.

[+ More Info](#) [2]

#### **CT165A Electricity Level I**

This course introduces students to core principles in electricity, providing them with the foundational knowledge necessary for more advanced study and experiential development of skills in Construction Trades. This course focuses on the use, care, safe operations and maintenance of electrical tools and equipment, supplies and materials; the development of an appropriate attitude as related to professional electrical work, and the acquisition of knowledge and information essential for success in initial pursuit of a career as an electrician. Specific emphasis will be placed on students' development of knowledge and skills related to introductory electrical concepts, safety procedures, hand bending, hand and power tools, fasteners and anchors, electrical mathematics, electrical concepts and theories and electrical test equipment.

[+ More Info](#) [3]

---

**You may also be interested in these related Programs...**

---



[4]

[Certificate in Construction Technology - Heating, Ventilation, and Air-Conditioning \(HVAC\) \[4\]](#)

The Certificate in Construction Technology Program will prepare students for the current local and global job market with entry-level skills needed for any of the following fields: carpentry; electricity; heating, ventilation, and air conditioning (HVAC); masonry; plumbing; reinforcing metal worker; and welding. All students must successfully pass four (4) core courses (technical related requirements) with a "C" or better before enrolling in one (1) of the seven (7) concentration areas.

[+ More Info \[4\]](#)



[5]

[Certificate in Construction Technology - Carpentry \[5\]](#)

## Certificate in Construction Technology - Electricity

Published on GUAM COMMUNITY COLLEGE (<https://guamcc.edu>)

---

The Certificate in Construction Technology Program will prepare students for the current local and global job market with entry-level skills needed for any of the following fields: carpentry; electricity; heating, ventilation, and air conditioning (HVAC); masonry; plumbing; reinforcing metal worker; and welding. All students must successfully pass four (4) core courses (technical related requirements) with a "C" or better before enrolling in one (1) of the seven (7) concentration areas.

[+ More Info](#) [5]



[6]

## [Certificate in Computer Aided Design & Drafting \(CADD\)](#) [6]

Computer Aided Design and Drafting (CADD) systems are used by drafters to prepare electronic drawings that can be viewed, printed, or programmed directly into automated manufacturing systems.

[+ More Info](#) [6]