

ELECTRICAL TECHNOLOGY

Curriculum Guide for Academic Year 2021-2022

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Program of study leading to:				In	Completed
Electrical Apprenticeship Preparation 3954				Progress	Grade
Electrical Apprenticeship Preparation Required Major Coursework:			Units		
†	ELECT 204	First Semester Fundamentals of Electricity	4		
†	ELECT 225	Algebra and Trigonometry for Technicians	4		
†	ELECT 240	Introduction to National Electrical Code	3		
	ELECT 253	OSHA Standards for Construction Safety	2		
†	ELECT 275	Electrical Pipe Bending	1		
TOTAL UNITS			14		

For graduation with an Electrical Apprenticeship **Certificate of Achievement**:

1. Complete each of the **REQUIRED COURSES** listed above with a **minimum grade of "C"**.
2. Complete fifty percent (50%) or more of the unit requirements for this field of concentration in residence; this means at **least 7 units** of the required 14 must be **completed at Long Beach City College**. Credit earned by exam, where applicable, may be included.

Complete and submit the certificate application form to the Admissions and Records office during your final semester of course work. These forms are available in the Admissions and Records office, or online at <http://admissions.lbcc.edu/> . Refer to the Schedule of Classes (<http://schedule.lbcc.edu>) and click the "Important Dates" link to view the actual deadline for each semester.

Program Mission and Outcomes

The Electrical Apprenticeship Preparation Certificate of Achievement will prepare students for entry into union electrical apprenticeship programs. Emphasis is placed on successful electrical calculations, safety, and the ability to document testing procedures. This is a stand-alone Certification of Achievement and is not part of the Certificates of Achievement required for the Electrical Technology Certificate of Achievement. Limitation on Enrollment - New students must enroll in and complete an ELECT 600 course prior to enrollment. The program requisite is in place to ensure the safety and health awareness of LBCC electrical students.

Program Student Learning Outcomes:

- Demonstrate the ability to solve basic electrical calculations and communicate results in detailed summary reports.

Program of study leading to:				In	Completed
Certificate of Completion – Electrical Program Preparation 4955				Progress	Grade
Electrical Program Preparation Required Coursework:			HOURS		
	ELECT 600	Electrical Program & Safety Preparation	9		
	ELECT 601	Computer Applications for Tech Reports	54		
	ELECT 602	Electrical Mathematics	54		
TOTAL HOURS			117		

Complete and submit the certificate application form to the Admissions and Records office during your final semester of course work. These forms are available in the Admissions and Records office, or online at <http://admissions.lbcc.edu/> . Refer to the Schedule of Classes (<http://schedule.lbcc.edu>) and click the "Important Dates" link to view the actual deadline for each semester.

Program Mission and Outcomes

The Electrical Program Preparation Noncredit Certificate of Completion is designed to provide students an orientation into the Electrical Program where expectations and program safety are covered, to provide time to work on math skills until necessary concepts are learned in order to increase success in the program of choice, and to learn specific computer applications needed in order to develop and build an industry standard lab report.

Program Student Learning Outcomes:

- Recognize basic safety and technical requirements for the Electrical Technology Program.

Legend

% This course requires a permission number and completion of the Electrical Department orientation process.

† This course has a prerequisite. Prerequisite courses must be complete with at least a "C" or "P" grade. Refer to the General Catalog (<http://www.lbcc.edu/cat/index.html>), the Schedule of Classes (<http://schedule.lbcc.edu/>), or the online Credit Course Outline (<http://wdb-asir.lbcc.edu/coursecurriculum/coursedetails/>) for specific prerequisite information.