

ELECTRICAL APPRENTICESHIP PREPARATION - CERTIFICATE OF ACHIEVEMENT

Plan Code: 3954

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 Requirements

Code Number	Course Title	Units
REQUIRED COURSES		
ELECT 204	First Semester Fundamentals of DC 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

ELECTRICAL PROGRAM PREPARATION - CERTIFICATE OF COMPLETION

Plan Code: 4955

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.

Code Number	Course Title	Hours
REQUIRED COURSES		
ELECT 600	Electrical Program & Safety Preparation	9
ELECT 601	Computer Applications for Tech Reports	54
ELECT 602	Electrical Mathematics	54
Total Hours		117

IPC-620 WIRE HARNESS ASSEMBLY AND INSPECTION - CERTIFICATE OF COMPLETION

Plan Code: 4956

Students enrolling in ELECT 620A and ELECT 620B will be learning cable harness assembly, testing and inspection skills completed per IPC/WHMA-A-620 industry standards. Students will learn the proper use of the requisite tools and assembly methods. Completion of these two classes provides students with an employment pathway in the Aerospace and Electrical Cable Harness Assembly positions. There are no prerequisite skills required to enter ELECT 620A.

Program Student Learning Outcomes

- Demonstrate the ability to assemble, test, and inspect cable harnesses.

Program Requirements

Code Number	Course Title	Hours
ELECT 620A	Electric Cable Termination IPC-620C	72
ELECT 620B	Electric Cable Inspection IPC-620C	36
Total Hours		108