

Career Studies Certificates: Electrical Control Technician Intermediate; HVAC

AREA: Electrical Control Technician Intermediate*
221-941-04

PURPOSE: To obtain a second career studies certificate, complementing the first CSC Electrical Technician Basic, thus enabling student to become more employable

OCCUPATIONAL OBJECTIVES: equipment designer, product development, engineering technician, product engineer, assembler, and other related positions.

Course #	Title	Credits
Fall Semester		
ELE 159*	Electrical Motors	3
ELE 134	Practical Electricity II* or Elective	3
ELE 239	Programmable Controllers	3
Spring Semester		
ELE 156	Electrical Control Systems	3
ELE 240	Advanced Programmable Logic Controllers	3
ELE 290	Coordinated Internship <u>or</u> Approved Elective	1
Total		16

*It is recommended that students complete the Basic Electrical Technician Certificate prior to starting the Electrical Control Technician Intermediate Certificate. Students who have not completed the Basic Electrical Technician Certificate will have to take ELE 134.

AREA: HVAC 221-903-10

LENGTH: This certificate can be completed in three semesters if the following conditions are met:

- Students are willing to enroll in day and evening classes
- Students must take classes in the semesters they are listed

PURPOSE: To expose students to theory and application related to HVAC

OCCUPATIONAL OBJECTIVES: To prepare students for entry-level positions in heating, ventilation and air conditioning

Course#	Title	Credits
Fall Semester		
AIR 121	Air Conditioning and Refrigeration I	3
AIR 154	Heating Systems I	3
ELE 133	Practical Electricity I	3
Total		9
Spring Semester		
AIR 122	Air Conditioning and Refrigeration II	3
AIR 134	Circuits and Controls	3
AIR 155	Heating Systems II	3
Total		9
Program Total		18