

ES12: Electrical Systems Technology Diploma (replaces IEA2: Industrial Electrical Technology in the Quarter System)

The Electrical Systems Technology diploma program provides instruction in the inspection, maintenance, installation, and repair of electrical systems in the residential, commercial, and industrial industries. A combination of theory and practical application is emphasized to develop academic, technical, and professional knowledge and skills.

Career Opportunities

Graduates may find employment with a number of firms both small and large. Local residential/commercial electrical contractors as well as larger manufacturing businesses or industries will continue to have a need for individuals with basic skills in electricity. Program graduates have the qualifications of entry level electricians.

Credit Required for Graduation: Minimum of 55 credit hours

Curriculum

	Program Course	Credits
	<i>Basic Skills Courses</i>	
_____	EMPL 1000 Interpersonal Relations and Professional Development	2
_____	ENGL 1010 Fundamentals of English I	3
_____	MATH 1012 Foundations of Mathematics	3
	<i>Occupational Courses</i>	
_____	COMP 1000 Introduction to Computers	3
_____	ELTR 1020 Electrical Systems Basic I	3
_____	ELTR 1060 Electrical Prints, Schematics, and Symbols	3
_____	ELTR 1080 Commercial Wiring I	6
_____	ELTR 1090 Commercial Wiring II	6
_____	ELTR 1110 Electrical Motors	4
_____	ELTR 1120 Variable Speed/Low Voltage Controls	2
_____	ELTR 1180 Electrical Controls	3
_____	IDFC 1007 Industrial Safety Procedures	2
_____	IDFC 1011 Direct Current I	3

-and-

Choose one of the specializations on next page

Choose one of the following specifications

*Specific Occupational Courses (**Electrical Construction Maintenance Specialization**)*

_____	ELTR 1205	Residential Wiring I	4
_____	ELTR 1210	Residential Wiring II	4

Occupational Electives (4 credits from the list below)

_____	ELTR 1520	Grounding and Bonding	2
_____	ELTR 1525	Photovoltaic Systems	5
_____	ELTR 1530	Conduit Sizing	2
_____	ELTR 1540	Wire Pulling and Codes	3

*Specific Occupational Courses (**Industrial Electrical Technology Specialization**)*

_____	ELTR 1220	Industrial PLCs	4
_____	ELTR 1250	Diagnostic Troubleshooting	2
_____	ELTR 1260	Transformers	3
_____	ELTR 1270	National Electrical Code Industrial Applications	3