

Electrical Technology

Diplomas in Construction Electrician Track and Industrial Electrician Track

Somerset Community College
Program Overview

somerset.kctcs.edu

PROGRAM ADVISORS

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PROGRAM LOCATIONS

This program is located on both SCC's Somerset and Laurel campuses.

PROGRAM DETAILS

The Electrical Technology program at Somerset Community College focuses on preparing students for various entry-level electrical positions in industry and the building trades. The study of electrical theory in the classroom and the practical application of that theory in labs provide the foundation of this program.

This program is versatile in offering two different diploma tracks—Construction Electrician and Industrial Electrician. An AAS degree in General Occupational/Technical Studies can also be earned.

Students enrolled in the program are required to achieve a minimum grade of "C" in the technical core and in those courses selected as technical electives.

ELECTRICAL TECHNOLOGY CREDENTIALS:

CERTIFICATES:

- Electrical Trainee Level I (8 credit hours)
- Electrical Trainee Level II (13 credit hours)
- Residential Electricity Level I (14 credit hours)
- Residential Electricity Level II (21-22 credit hours)
- Electrical Motor Control Level I (28-30 credit hours)
- Electrical Motor Control Level II (35-38 credit hours)
- Electrical Construction (31-33 credit hours)

DIPLOMAS:

- Electrical Technology:
Construction Electrician Track
(48-49 credit hours)
- Electrical Technology:
Industrial Electrician Track
(54-56 credit hours)

CAREER OPPORTUNITIES:

Since electricity has become an integral part of everyday life, an adequate supply of electrical power is necessary, as well as a reliable system for efficient utilization. Because of this there is a continuing need for qualified electrical technicians.

Graduates of the MIT: Electrical Technology program at Somerset Community College, acquire the knowledge and skills for employment in such career areas as electrical engineering technicians, power plant technicians, in electrical construction, in industrial maintenance and as technical representatives.



SOMERSET
COMMUNITY COLLEGE

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Advising Planner

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REQUIRED COURSES INDUSTRIAL ELECTRICIAN OPTION for Electrical Technology Diploma

GENERAL EDUCATION REQUIREMENTS (6 Hours) Credit

Area 1	Writing Communication, <u>OR</u> Heritage/Humanities, <u>OR</u> Oral Communications	3
Area 2	MAT 116 Technical Mathematics <u>OR</u> MAT 126 Technical Algebra & Trigonometry <u>OR</u> Higher Level Mathematics Course	3

TECHNICAL CORE (25 Hours)

ELT 110	Circuits I	5
ELT 114	Circuits II	5
EET 250	National Electric Code	4
EET 264	Rotating Machinery	2
EET 265	Rotating Machinery Lab	2
EET 270	Electrical Motor Controls I	2
EET 271	Electrical Motor Controls I Lab	2
EET 127	Electrical Capstone	1
	*Computer /Digital Literacy <u>OR</u>	3

... If any student successfully tests out of Computer/Digital Literacy he/she must take an additional Technical Course approved by the Electrical Program Coordinator.

INDUSTRIAL ELECTRICIAN TRACK COURSES (23-25 Hours)

EET 154	Electrical Construction I <u>AND</u>	2
EET 155	Electrical Construction I Lab <u>AND</u>	2
EET 252	Electrical Construction II <u>AND</u>	2
EET 253	Electrical Construction II Lab <u>OR</u>	2
EET 254	Electrical Construction <u>AND</u>	(3)
EET 255	Electrical Construction Lab	(4)
EET 272	Electrical Motor Controls II <u>AND</u>	2
EET 273	Electrical Motor Controls II Lab <u>AND</u>	2
EET 276	Programmable Logic Controllers <u>AND</u>	2
EET 277	Programmable Logic Controllers Lab <u>OR</u>	2
EET 278	Electrical Motor Controls II and PLCs <u>AND</u>	(3)
EET 279	Electrical Motor Controls II and PLCs Lab	(4)
	Technical Electives*	9

TOTAL HOURS FOR PROGRAM – 54 - 56

REQUIRED COURSES CONSTRUCTION ELECTRICIAN OPTION for Electrical Technology Diploma

GENERAL EDUCATION REQUIREMENTS (6 Hours) Credit

Area 1	Writing Communication, <u>OR</u> Heritage/Humanities, <u>OR</u> Oral Communications	3
Area 2	MAT 116 Technical Mathematics <u>OR</u> MAT 126 Technical Algebra & Trigonometry <u>OR</u> Higher Level Mathematics Course	3

TECHNICAL CORE (25 Hours)

ELT 110	Circuits I	5
ELT 114	Circuits II	5
EET 250	National Electric Code	4
EET 264	Rotating Machinery	2
EET 265	Rotating Machinery Lab	2
EET 270	Electrical Motor Controls I	2
EET 271	Electrical Motor Controls I Lab	2
EET 127	Electrical Capstone	1
	*Computer /Digital Literacy <u>OR</u>	3

... If any student successfully tests out of Computer/Digital Literacy he/she must take an additional Technical Course approved by the Electrical Program Coordinator.

CONSTRUCTION ELECTRICIAN TRACK COURSES

(17-18 Hours)

EET 154	Electrical Construction I <u>AND</u>	2
EET 155	Electrical Construction I Lab <u>AND</u>	2
EET 252	Electrical Construction II <u>AND</u>	2
EET 253	Electrical Construction II Lab <u>OR</u>	2
EET 254	Electrical Construction <u>AND</u>	(3)
EET 255	Electrical Construction Lab	(4)
	Technical Electives*	10

TOTAL HOURS FOR PROGRAM – 48-49

Notes: