

Electrical Technology

Diplomas in Construction Electrician Track and Industrial Electrician Track

somerset.kctcs.edu

PROGRAM ADVISORS

Curt Null (Somerset Campus)
(606) 451-6830
george.null@kctcs.edu

David Coffey (Laurel Campus)
(606) 878-4739
david.coffey@kctcs.edu

David Greene (Somerset)
(606) 451-6825
charles.greene@kctcs.edu

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)

*A Federal Gainful Employment program

Learn more about it on SCC's website:
[somerset.kctcs.edu/Academics/Programs of Study/Electrical Technology](http://somerset.kctcs.edu/Academics/Programs%20of%20Study/Electrical%20Technology)

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.



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REQUIRED COURSES

INDUSTRIAL ELECTRICIAN OPTION for Electrical Technology Diploma

GENERAL EDUCATION REQUIREMENTS (6 HOURS)		Credit	Grade
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	Grade
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

STUDENT _____

ID NO. _____ DATE _____

SIGNATURE _____

ADVISOR _____