

ELECTRICIAN TRAINING

The Electrician Training Department offers preparation for entry-level employment and/or potential further study in the fields of NCCER Electrical Applications and Electrical Theory. Students completing these certificates will have a foundation for employment as an electrician.

Contact Information

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Associate Degrees

- Associate of Science in Electrical Technology (AS)

Certificates

- Certificate of Achievement in NCCER Electrical Applications (<https://catalog.cos.edu/areas-study/electrician-training/certificate-achievement-nccer-electrical-applications/>)
- Certificate of Achievement in NCCER Electrical Theory (<https://catalog.cos.edu/areas-study/electrician-training/certificate-achievement-nccer-electrical-theory/>)

For a complete list of courses and descriptions visit: COURSES (<https://catalog.cos.edu/course-descriptions/>)

ET 200 Introduction to Electrician Training 4unit(s)

Hours: 3.5 Lecture/Discussion Hours:
1.5 Lab

This is the first course in a series of state-approved Electrician Training classes. Topics include basic safety, math, tools, blueprints, and rigging. NCCER Modules 1-16.

ET 201 Electrician Training 1 4unit(s)

Hours: 3.5 Lecture/Discussion Hours:
1.5 Lab

This is an electrical course in a series of state-approved Electrician Training classes. Topics include electrical theory, introduction to NEC codes, electrical blue prints, hand bending, fasteners, anchors, test equipment, raceways, boxes, fittings, and residential wiring. NCCER Modules 17-25.

Prerequisites: ET 200 or equivalent college course with a minimum grade of C (may be taken concurrently).

ET 202 Electrician Training 2 4unit(s)

Hours: 3.5 Lecture/Discussion Hours:
1.5 Lab

This is an electrical course in a series of state-approved Electrician Training classes. Topics include commercial and industrial wiring, AC motor theory and application, grounding, conduit bending, boxes and fittings, and conductor installations. It includes NCCER Modules 26-32.
Prerequisites: ET 200 or equivalent college course with a minimum grade of C.

ET 203 Electrician Training 3 4unit(s)

Hours: 3.5 Lecture/Discussion Hours:
1.5 Lab

This is an electrical course in a series of state-approved Electrician Training classes. Topics include voice and data systems, fiber optics, cable tray, conductor terminations and splices, electric services, breakers, contactors and relays, and lighting circuits. This course includes NCCER Modules 27-33.
Prerequisites: ET 200 or equivalent college course with a minimum grade of C.

ET 204 Electrician Training 4 4unit(s)

Hours: 3.5 Lecture/Discussion Hours:
1.5 Lab

This is an electrical course in a series of state-approved Electrician Training classes. Topics include calculations, overcurrent protection, raceway, box, and fitting fill, wiring devices, and distribution equipment. NCCER Modules 34-40 are covered in this course.
Prerequisites: ET 203 or equivalent college course with a minimum grade of C (may be taken concurrently).

ET 205 Electrician Training 5 4unit(s)

Hours: 3.5 Lecture/Discussion Hours:
1.5 Lab

This is an electrical course in a series of state-approved Electrician Training classes. Topics include distribution system transformers, lighting, motor calculations, maintenance, and hazardous locations. This course covers NCCER Modules 41-47.
Prerequisites: ET 203 or equivalent college course with a minimum grade of C.

ET 206 Electrician Training 6 4unit(s)

Hours: 3.5 Lecture/Discussion Hours:
1.5 Lab

This is an electrical course in a series of state-approved Electrician Training classes. Topics include load calculations, lighting, standby/emergency systems, electronic theory, fire alarm systems, and specialty transformers. This course covers NCCER Modules 48-53.
Prerequisites: ET 203 or equivalent college course with a minimum grade of C.

ET 207 Electrician Training 7

4unit(s)

Hours: 3.5 Lecture/Discussion Hours:
1.5 Lab

This is an electrical course in a series of state-approved Electrician Training classes. Topics include motor controls, HVAC controls, motor maintenance, high-voltage terminations/splices, foremanship, and NEC code review. This course covers NCCER Modules 54-60.

Prerequisites: ET 203 or equivalent college course with a minimum grade of C.

ET 300 Electrician Training Support Lab 1

0.5unit(s)

Hours: 2 Lab

This course directly supports students currently enrolled in ET 200 by providing additional lab access and practical application of Electrician Training concepts. Students should only enroll in this course if also taking ET 200 at specified coordinating locations.

Corequisites: ET 200 must be taken concurrently.

ET 301 Training Support Lab 1

0.5unit(s)

Hours: 2 Lab

This course directly supports students currently enrolled in ET 201 by providing additional lab access and practical application of Electrician Training concepts. Students should only enroll in this course if also taking ET 201 at specified coordinating locations.

Corequisites: ET 201 must be taken concurrently.

Electrician Training

Shane Baesemann

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