



For more information contact:
Hazard Community & Technical College
101 Vo-Tech Drive
Hazard, KY 41701
Phone: 606-437-3313 or Fax: 606-435-6086
Email: danny.ingram@kctcs.edu

All applicants meeting the appropriate academic requirement and technical standards shall be considered equally for admission to a community college or any academic program thereof regardless of race, color, religion, sex, marital status, beliefs, national origin, age, sexual orientation, or physical or mental disability.

How to Apply

Please submit the following items to the Admissions Office

1. A completed HCTC admissions application.
2. Official high school transcripts or GED scores, as applicable.
3. Official transcripts from other non-KCTCS colleges or institutions you have attended, if applicable.
4. ACT scores, if available. If you have not taken the ACT or you did not receive an *18 or higher* in Writing, Reading, and/or Mathematics sections, you must take the COMPASS placement test, which is given at HCTC.

To contact the Admissions Office, call
800-246-7521, Ext. 73311.

www.Hazard.kctcs.edu



Manufacturing Industrial Technology:

Electrical Technology



**Hazard Community and
Technical College
The Associate of Applied Science
Degree in General
Occupational/Technical Studies Guidelines**

In order to receive this degree you must do the following:

Complete general education components (15 credit hours minimum in specified areas – Mathematics, Natural Sciences, Social/ Behavioral Sciences, Humanities/ Fine Arts, Writing/Accessing Information)

Complete computer literacy.

Complete 42 - 58 credit hours of technical course work (Industrial Technology, Business Technology, Health and Human Services or other).

Verify residency requirements – at least 25% of the approved curriculum credits (15 – 19 credit hours) must be completed at the institution granting the degree (degree total 60 – 76 credit hours)

Develop learner degree completion plan.

Technical courses to be utilized in this degree will be taken from the list of approved technical courses at Hazard Community and Technical College.

*Listing of General Education Requirements may be found in KCTCS catalog.

Motor Control Electrician I

| | | |
|----------------------|---------------------------------|-----------|
| ENGT 110 | Circuits I | 3 |
| ENGT 111 | Circuits I Lab 1 | 1 |
| ENGT 113 | Circuits I Lab 2 | 1 |
| ENGT 114 | Circuits II | 3 |
| ENGT 115 | Circuits II Lab 1 | 1 |
| ENGT 117 | Circuits II Lab 2 | 1 |
| EET 150 | Transformers | 2 |
| EET 151 | Transformers Lab | 1 |
| EET 264 | Rotating Machinery | 2 |
| EET 265 | Rotating Machinery Lab | 2 |
| EET 250 | National Electrical Code | 4 |
| EET 270 | Electrical Motor Controls I | 2 |
| EET 271 | Electrical Motor Controls I Lab | 2 |
| CPU 150 | Computer Fundamentals OR | 3 |
| CIS 100 | Introduction to Computers * | (3) |
| Total Credits | | 28 |

* This also counts as a General Education course.

Motor Control Electrician II

| | | |
|----------------------|--|--------------|
| ENGT 110 | Circuits I | 3 |
| ENGT 111 | Circuits I Lab 1 | 1 |
| ENGT 113 | Circuits I Lab 2 | 1 |
| ENGT 114 | Circuits II | 3 |
| ENGT 115 | Circuits II Lab 1 | 1 |
| ENGT 117 | Circuits II Lab 2 | 1 |
| EET 150 | Transformers | 2 |
| EET 151 | Transformers Lab | 1 |
| EET 264 | Rotating Machinery | 2 |
| EET 265 | Rotating Machinery Lab | 2 |
| EET 250 | National Electrical Code | 4 |
| EET 270 | Electrical Motor Controls I | 2 |
| EET 271 | Electrical Motor Controls I Lab | 2 |
| EET 272 | Electrical Motor Controls II AND | 2 |
| EET 273 | Electrical Motor Controls II Lab AND | 2 |
| EET 276 | Programmable Logic Controllers AND | 2 |
| EET 277 | Programmable Logic Controllers Lab OR | 2 |
| EET 278 | Electrical Motor Controls II and PLCs AND | (3) |
| EET 279 | Electrical Motor Controls II and PLCs Lab | (4) |
| CPU 150 | Computer Fundamentals OR | 3 |
| CIS 100 | Introduction to Computers* | (3) |
| Total Credits | | 35-36 |

Electrician Helper II

| | | |
|----------------------|---------------------|-----------|
| ENGT 110 | Circuits I | 3 |
| ENGT 111 | Circuits I Lab 1 | 1 |
| ENGT 113 | Circuits I Lab 2 | 1 |
| ENGT 114 | Circuits II | 3 |
| ENGT 115 | Circuits II Lab 1 | 1 |
| ENGT 117 | Circuits II Lab 2 | 1 |
| | Technical Electives | 3 |
| Total Credits | | 13 |

Residential Electrician I

| | | |
|----------------------|-------------------------------|-----------|
| ENGT 110 | Circuits I | 3 |
| ENGT 111 | Circuits I Lab 1 | 1 |
| ENGT 113 | Circuits I Lab 2 | 1 |
| ENGT 114 | Circuits II | 3 |
| ENGT 115 | Circuits II Lab 1 | 1 |
| ENGT 117 | Circuits II Lab 2 | 1 |
| EET 154 | Electrical Construction I | 2 |
| EET 155 | Electrical Construction I Lab | 2 |
| Total Credits | | 14 |

Residential Electrician II

| | | |
|----------------------|--|--------------|
| ENGT 110 | Circuits I | 3 |
| ENGT 111 | Circuits I Lab 1 | 1 |
| ENGT 113 | Circuits I Lab 2 | 1 |
| ENGT 114 | Circuits II | 3 |
| ENGT 115 | Circuits II Lab 1 | 1 |
| ENGT 117 | Circuits II Lab 2 | 1 |
| EET 154 | Electrical Construction I AND | 2 |
| EET 155 | Electrical Construction I Lab AND | 2 |
| EET 252 | Electrical Construction II AND | 2 |
| EET 253 | Electrical Construction II Lab OR | 2 |
| EET 254 | Electrical Construction AND | (3) |
| EET 255 | Electrical Construction Lab | (4) |
| EET 250 | National Electrical Code | 4 |
| Total Credits | | 21-22 |

HAZARD COMMUNITY AND TECHNICAL COLLEGE
TECHNICAL COLLEGE CAMPUS
Electrical Technology and Industrial Electrician

Graduation Requirements**General Education****Required Courses**

| Course | Title | Credit Hrs |
|--------|--|------------|
| MT 115 | Technical Mathematics OR | 3 |
| MT 125 | Technical Algebra & Trigonometry OR | (3) |
| | Higher Level Mathematics Course | |

Choose one of the following from the General Education list :

Required Courses

| | | |
|-----------------|-------------------------------|----------|
| ENG 101 | Writing I OR | 3 |
| | Science OR | (3) |
| | Social Interaction OR | (3) |
| | Heritage/Humanities OR | (3) |
| | Oral Communications | (3) |
| Subtotal | | 6 |

Technical Core:

Required Courses

| | | |
|-----------------|---------------------------------|-----------|
| ENGT 110 | Circuits I | 3 |
| ENGT 111 | Circuits I Lab 1 | 1 |
| ENGT 113 | Circuits I Lab 2 | 1 |
| ENGT 114 | Circuits II | 3 |
| ENGT 115 | Circuits II Lab 1 | 1 |
| ENGT 117 | Circuits II Lab 2 | 1 |
| EET 250 | National Electrical 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 |
| | Computer Literacy1 | 3 |
| Subtotal | | 25 |

Electrical Technology: Industrial Electrician Option
Electrical Technology: Construction Electrician Option

Diploma: Electrical Technology: Industrial Electrician

| Course | Title | Credit Hrs |
|---------|--|--------------|
| EET 154 | Electrical Construction I AND | 2 |
| EET 155 | Electrical Construction I Lab AND | 2 |
| EET 252 | Electrical Construction II AND | 2 |
| EET 253 | Electrical Construction II Lab OR | 2 |
| EET 254 | Electrical Construction AND | (3) |
| EET 255 | Electrical Construction Lab | (4) |
| EET 272 | Electrical Motor Controls II AND | 2 |
| EET 273 | Electrical Motor Controls II Lab AND | 2 |
| EET 276 | Programmable Logic Controllers AND | 2 |
| EET 277 | Programmable Logic Controllers Lab OR | 2 |
| EET 278 | Electrical Motor Controls II and PLCs AND | (3) |
| EET 279 | Electrical Motor Controls II and PLCs Lab | (4) |
| | Technical Electives* | 9 |
| | Subtotal | 23-25 |
| | Total Credits | 54-56 |

Diploma: Electrical Technology: Construction Electrician

| | | |
|---------|--|--------------|
| EET 154 | Electrical Construction I AND | 2 |
| EET 155 | Electrical Construction I Lab AND | 2 |
| EET 252 | Electrical Construction II AND | 2 |
| EET 253 | Electrical Construction II Lab OR | 2 |
| EET 254 | Electrical Construction AND | (3) |
| EET 255 | Electrical Construction Lab | (4) |
| | Technical Electives* | 10 |
| | Subtotal | 17-18 |
| | Total Credits | 48-49 |

Certificates:**Electrician Apprentice**

| | | |
|----------|---|--------------|
| ENGT 110 | Circuits I | 3 |
| ENGT 111 | Circuits I Lab 1 | 1 |
| ENGT 113 | Circuits I Lab 2 | 1 |
| ENGT 114 | Circuits II | 3 |
| ENGT 115 | Circuits II Lab 1 | 1 |
| ENGT 117 | Circuits II Lab 2 | 1 |
| EET 150 | Transformers | 2 |
| EET 151 | Transformers Lab | 1 |
| EET 250 | National Electrical Code | 4 |
| EET 154 | Electrical Construction I AND | 2 |
| EET 155 | Electrical Construction I Lab AND | 2 |
| EET 252 | Electrical Construction II AND | 2 |
| EET 253 | Electrical Construction II Lab OR | 2 |
| EET 254 | Electrical Construction AND | (3) |
| EET 255 | Electrical Construction Lab | (4) |
| EET 264 | Rotating Machinery AND | 2 |
| EET 265 | Rotating Machinery Lab AND | 2 |
| EET 270 | Electrical Motor Controls I AND | 2 |
| EET 271 | Electrical Motor Controls I Lab OR | 2 |
| EET 268 | Rotating Machinery Electrical Motor Controls I AND | (3) |
| EET 269 | Rotating Machinery Electrical Motor Controls I Lab | (4) |
| | Total Credits | 31-33 |

Electrician Helper I

| | | |
|----------|----------------------|----------|
| ENGT 110 | Circuits I | 3 |
| ENGT 111 | Circuits I Lab 1 | 1 |
| ENGT 113 | Circuits I Lab 2 | 1 |
| | Technical Electives | 3 |
| | Total Credits | 8 |