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**Electrical Technology – Automated Industrial Controls Technician Track**

**Diploma**

**Program Coordinator: Antonio Barber E-mail:** [**antoniob.barber@kctcs.edu**](mailto:antoniob.barber@kctcs.edu) **Phone: 859-246-6720**

**Program Website:** [**https://bluegrass.kctcs.edu/education-training/program-finder/electrical-technology.aspx**](https://bluegrass.kctcs.edu/education-training/program-finder/electrical-technology.aspx)

**Student Name: Student ID:**

***Students must meet college readiness benchmarks as identified by the Council on Postsecondary Education or remedy the identified skill deficiencies.***

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| **First Semester** | **Credit Hours** | **Term** | **Grade** | **Prerequisites** | **Notes** |
| ELT 110 Circuits I | 5 |  |  | Math placement for MAT 126 or higher |  |
| ELT 114 Circuits II | 5 |  |  | ELT 110 with grade of C or greater | Technical Core |
| EET 250 National Electric Code | 4 |  |  |  |  |
| MAT 116 Technical Mathematics OR 126 Technical Algebra and Trigonometry OR higher level Quantitative Literacy course | 3 |  |  |  | MAT 126 recommended |
| **Total Semester Credit Hours** | **17** |  |  |  | |

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| **Second Semester** | **Cr. Hrs.** | **Term** | **Grade** | **Prerequisites** | **Notes** |
| EET 264 Rotating Machinery | 2 |  |  | ELT 110 & 114 with C or better, Coreq: EET 264/ 265 |  |
| EET 265 Rotating Machinery Lab | 2 |  |  |  |
| EET 270 Electrical Motor Controls I | 2 |  |  | ELT 110 with C or better, Coreq EET 270/271 |  |
| EET 271 Electrical Motor Controls I Lab | 2 |  |  |  |
| FPX 100 Fluid Power | 3 |  |  | Coreq: FPX 101 |  |
| FPX 101 Fluid Power Lab | 2 |  |  | Coreq: FPX 100 |  |
| Written Communication, Oral Communication, OR Heritage/Humanities course | 3 |  |  |  |  |
| **Total Semester Credit Hours** | **16** |  |  |  | |

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| **Third Semester** | **Cr. Hrs.** | **Term** | **Grade** | **Prerequisites** | **Notes** |
| EET 272 Electrical Motor Control II | 2 |  |  | EET 270, Coreq: EET 273 |  |
| EET 273 Electrical Motor Control II Lab | 2 |  |  | EET 270, Coreq: EET 272 |  |
| EET 276 Programmable Logic Controllers | 2 |  |  | ELT 110, EET 270, EET 272, Coreq: EET 277 |  |
| EET 277 Programmable Logic Controllers Lab | 2 |  |  | ELT 110, EET 271, EET 273, Coreq: EET 276 |  |
| Technical Elective | 4 |  |  |  | See list on back. |
| **Total Semester Credit Hours** | **12** |  |  |  | |

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| **Fourth Semester** | **Cr. Hrs.** | **Term** | **Grade** | **Prerequisites** | **Notes** |
| EET 127 Electrical Technology Capstone | 1 |  |  | Consent of Instructor | Online class |
| Technical Elective (Recommended: COE 199 Cooperative Education OR COED 198 Practicum | 1 |  |  |  |  |
| Technical Electives | 3 |  |  |  | See list on back. |
| Digital Literacy OR If Digital Literacy is satisfied by test, then Technical Elective | 3 |  |  |  |  |
| **Total Semester Credit Hours** | **8** |  |  |  | |
| **Total Diploma Credit Hours** | **53** |  |  |  | |

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| * **25% or more of Total Diploma Credit Hours must be earned at BCTC**      * **Cumulative GPA must be 2.0 or higher** |

**Graduation Requirements:**

**Advisor Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Advisor Contact \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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| **Additional Information** |
| Students must complete MAT 065 or 075 or demonstrate an equivalent placement level before enrolling in an ELT class.  Students must earn a grade of C or better in all EET and ELT courses and in the digital literacy course. |

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| **Technical Electives** | | |
| **Course** | **Cr. Hrs.** | **Prerequisites** |
| EET 150 Transformers AND  EET 151 Transformers Lab | 2  1 | ELT 110 with a grade of C or better, Coreq: EET 151  Coreq: EET 150 |
| ELT 260 Robotics and Industrial Automation | 5 | Consent of Instructor |
| Other courses approved by the Electrical Technology Program Coordinator | 1-10 |  |

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| **Embedded Credentials** | | | |
| Credential | Title | Requirements | Total Credit Hours |
| Certificate | Electrician Trainee Level I | ELT 110, Technical Electives (3 credit hours) | 8 |
| Certificate | Electrician Trainee Level II | ELT 110, Technical Electives (8 credit hours) | 13 |

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| * **25% or more of Total Certificate Credit Hours must be earned at BCTC** * **Grade of C or higher in each course required for certificate** |

**Certificate Requirements:**