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**Industrial Maintenance Technology – Industrial Maintenance Technician**

**Diploma**

**EFFECTIVE SUMMER 2020**

**Program Coordinator: Mike Binzer E-mail: mike.binzer@kctcs.edu Phone: 859-246-6518**

**Program Website:** [**https://bluegrass.kctcs.edu/education-training/program-finder/industrial-maintenance.aspx**](https://bluegrass.kctcs.edu/education-training/program-finder/industrial-maintenance.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** |
| MAT 116 Technical Mathematics or higher level Quantitative Reasoning course | 3 |  |  |  |  |
| ELT 110 Circuits I OR (IMT 110 Industrial Maintenance Electrical Principles AND IMT 111 Industrial Maintenance Electrical Principles Lab)  | 5 |  |  |  |  |
| Technical Elective | 5 |  |  |  | ELT 114 recommended |
| **Total Semester Credit Hours** | **13** |  |  |  |  |

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| **Second Semester** | **Cr. Hrs.** | **Term** | **Grade** | **Prerequisites** | **Notes** |
| EET 270 Electrical Motor Controls I | 2 |  |  | IMT 110 or ELT 110 Coreq: EET 271 |  |
| EET 271 Electrical Motor Controls I Lab | 2 |  |  | IMT 110 or ELT 110 Coreq: EET 270 |  |
| (IMT 150 Maintaining Industrial Equipment I ANDIMT 151 Maintaining Industrial Equip I Lab) OR(FPX 100 Fluid Power and FPX 100 Fluid Power Lab) | 5 |  |  |  | If IMT 150/151 in 2nd semester then FPX 100/ 101 in 4th semester |
| Digital Literacy | 0 – 3  |  |  |  | CAD 103 CAD Fundamentals recommended |
| BRX 120 Basic Blueprint Reading OR BRX 110 Basic Blueprint Reading for Machinist | 2 – 3 |  |  |  |  |
| **Total Semester Credit Hours** | **11 – 15**  |  |  |  |  |

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| **Third Semester** | **Cr. Hrs.** | **Term** | **Grade** | **Prerequisites** | **Notes** |
| Written Communication OR Oral Communication OR Heritage/Humanities course | 3 |  |  |  |  |
| EET 276 Programmable Logic Controllers | 2 |  |  | Consent of Instructor, Coreq: EET 277 |  |
| EET 277 Programmable Logic Controllers Lab | 2 |  |  | Consent of Instructor, Coreq: EET 276 |  |
| Technical Elective  | 4  |  |  |  | EET 272/273 recommended |
| Technical Elective | 3 |  |  |  |  |
| **Total Semester Credit Hours** | **14**  |  |  |  |

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| **Fourth Semester** | **Cr. Hrs.** | **Term** | **Grade** | **Prerequisites** | **Notes** |
| IMT 100 Welding for Maintenance | 3 |  |  |  |  |
| IMT 101 Welding for Maintenance | 2 |  |  |  |  |
| IMT 289 Capstone | 1 |  |  |  |  |
| COE 199 Cooperative Education ORCOED 198 Practicum | 1 |  |  |  | BCTC does not promise to find a Co-op or Practicum placement. |
| (FPX 100 Fluid Power AND FPX 100 Fluid Power Lab) OR (IMT 150 Maintaining Industrial Equipment I AND IMT 151 Maintaining Industrial Equip I Lab)  | 5 |  |  |  | If FPX 100/101 in 2nd semester then IMT 150/ 151 in 4th semester |
| **Total Semester Credit Hours** | **12** |  |  |  |
| **Total Diploma Credit Hours** | **50 – 54**  |  |  |  |

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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**
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**Graduation Requirements:**

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

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| **Additional Information** |
| Students must earn a grade of C or better in all technical courses and a cumulative 2.0 GPA to continue in the Industrial Maintenance Technology program.Courses listed in 3rd and 4th semester can be taken in any order due to availability. It is recommended that some Technical Electives be taken in the summer to ease load and schedule during the Fall and Spring semesters. |

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| **Recommended Technical Electives List** |
| **Course** | **Cr. Hrs.** | **Prerequisites** |
| CMM 110 Fundamentals of Machine Tools – A  | 3 |  |
| CMM 112 Fundamentals of Machine Tool – B  | 3 |  |
| CMM 114 Fundamentals of Machine Tools  | 6 |  |
| CMM 132 CAD / CAM / CNC | 3 |  |
| EET 272 Electrical Motor Controls II | 3 | EET 270, Coreq: EET 273 |
| EET 273 Electrical Motor Controls II Lab | 2 | EET 270, Coreq: EET 272 |
| EET 276 Programmable Logic Controllers | 2 | ELT 110, EET 270 and EET 272, Coreq: EET 277 |
| EET 277 Programmable Logic Controllers Lab | 2 | ELT 110, EET 271 and EET 273, Coreq: EET 276 |
| ELT 114 Circuits II | 5 | ELT 110 |
| ELT 260 Robotic and Industrial Automation | 5 | Instructor Consent |
| IET 1301 Safety Culture | 1 |  |
| IET 1302 5S | 1 |  |
| IET 1303 Total Production Management | 1 |  |
| IET 1304 Problem Solving | 1 |  |
| IET 1305 Maintenance Reliability | 1 |  |
| Any IMT, EET, or ELT course approved by Industrial Maintenance Program Coordinator | 1 – 12 |  |