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**Diesel Technology – Medium & Heavy Truck Technician Track**

**Associate in Applied Science Degree**

**Program Coordinator: Aaron N. Harlow E-mail:** **aaron.harlow@kctcs.edu** **Phone: 859-246-6774**

**Program Website:** <https://bluegrass.kctcs.edu/education-training/program-finder/diesel-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** |
| DIT 103 Preventative Maintenance Lab | 2 |  |  |  |  |
| ADX 120 Basic Automotive Electricity | 3 |  |  |  |  |
| ADX 121 Basic Automotive Electricity Lab | 2 |  |  | Coreq: ADX 120 |  |
| DIT 110 Introduction to Diesel Engines | 3 |  |  |  |  |
| DIT 111 Introduction to Diesel Engines Lab | 2 |  |  | Coreq: DIT 110 |  |
| Quantitative Reasoning course | 3 |  |  |  |  |
| **Total Semester Credit Hours** | **15** |  |  |  |

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| **Second Semester** | **Cr. Hrs.** | **Term** | **Grade** | **Prerequisites** | **Notes** |
| FPX 100 Fluid Power | 3 |  |  |  |  |
| FPX 101 Fluid Power Lab | 2 |  |  | Coreq: FPX 100 |  |
| DIT 180 Brakes | 3 |  |  |  |  |
| DIT 181 Brakes Lab | 2 |  |  | Coreq: DIT 180 |  |
| DIT 160 Steering and Suspension | 3 |  |  |  |  |
| DIT 161 Steering and Suspension Lab | 2 |  |  | Coreq: DIT 160 |  |
| Written Communication course | 3 |  |  |  |  |
| **Total Semester Credit Hours** | **18** |  |  |  |

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| **Third Semester** | **Cr. Hrs.** | **Term** | **Grade** | **Prerequisites** | **Notes** |
| DIT 112 Diesel Engine Repair | 3 |  |  |  |  |
| DIT 113 Diesel Engine Repair Lab | 2 |  |  | Coreq: DIT 112 |  |
| ADX 170 Climate Control | 3 |  |  |  |  |
| ADX 171 Climate Control Lab | 1 |  |  | Coreq: ADX 170 |  |
| Digital Literacy course | 3 |  |  |  |  |
| Natural Sciences course | 3 |  |  |  |  |
| **Total Semester Credit Hours** | **15** |  |  |  |

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| **Fourth Semester** | **Cr. Hrs.** | **Term** | **Grade** | **Prerequisites** | **Notes** |
| ADX 260 Electrical Systems | 3 |  |  |  |  |
| ADX 261 Electrical Systems Lab | 2 |  |  | Coreq: ADX 260 |  |
| DIT 150 Powertrains | 3 |  |  |  |  |
| DIT 151 Powertrains Lab | 2 |  |  | Coreq: DIT 150 |  |
| Heritage or Humanities course | 3 |  |  |  |  |
| Social and Behavioral Sciences course | 3 |  |  |  |  |
| **Total Semester Credit Hours** | **16**  |  |  |  |  |
| **Total Degree Credit Hours** | **64** |  |  |  |  |

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| * **25% or more of Total Program 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** |
| * The Diesel Technology program is currently on a two-year rotation cycle beginning in Fall 2019 and enrolling new students every other year.
* Enrollment into the program is limited. Interested students must contact the Diesel Technology Program Coordinator.
* Students cannot enroll in any ADX or DIT course without the permission of the Diesel Technology Program Coordinator.
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| **Course Rotation Schedule** |
|  | **Fall** | **Spring** |
| DIT 103 Preventative Maintenance Lab | X |  |
| ADX 120 & ADX 121 Basic Automotive Electricity & Lab | X |  |
| DIT 110 & DIT 111 Introduction to Diesel Engines & Lab | X |  |
| FPX 100 and FPX 101 Fluid Power & Lab |  | X |
| DIT 180 & DIT 181 Brakes & Lab |  | X |
| DIT 160 & DIT 161 Steering and Suspension & Lab |  | X |
| DIT 112 & DIT 113 Diesel Engine Repair & Lab | X |  |
| ADX 170 & ADX 171 Climate Control & Lab | X |  |
| ADX 260 & ADX 261 Electrical Systems & Lab |  | X |
| DIT 150 & DIT 151 Powertrains & Lab |  | X |

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| **Embedded Credentials** |
| Credential | Title | Requirements | Total Credit Hours |
| Certificate | Diesel Engine Mechanic | DIT 110, 111, 112, 113 Electives (Diesel Courses) | 12 |
| Certificate | Diesel Steering & Suspension Mechanic | DIT 160, 161 Electives (Diesel Courses) | 12 |
| Certificate | Electrical/Electronic Systems Mechanic | ADX 120, 121, 260, 261 Electives (Diesel Courses) | 12 |
| Certificate | Fluid Power Mechanic | FPX 100, 101 Electives (Diesel Courses) | 12 |
| Certificate | Heavy Duty Brake Mechanic | DIT 180, 181 Electives (Diesel Courses) | 12 |
| Certificate | Heavy Duty Drive Train Mechanic | DIT 150, 151 Electives (Diesel Courses) | 12 |
| Certificate | Medium & Heavy Truck Mechanic Helper | ADX 120, 121, 260, 261 DIT 110, 111, 112, 113, 160, 161, 180, 181 | 30 |
| Certificate | Mobile Air Conditioning Mechanic | ADX 170, 171 Electives (Diesel Courses) | 12 |
| Certificate | Preventative Maintenance Mechanic | DIT 103 Electives (Diesel Courses) | 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**
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**Certificate Requirements:**