Join the field that moves the nation! Locomotive diesel technicians in the railway industry inspect, maintain, troubleshoot and repair locomotives. Our students benefit from a state-of-the-art training lab and industry-guided curriculum made possible by corporate partner BNSF Railway. Get on track to work for some of the nation’s top railway companies! This career program can lead to a job with big engines and big pay.

Community College. It covers the basic operation, maintenance, repair requirements and trouble shooting for EMD and GE diesel engines and support systems as well as 26L and 30 ACDW locomotive air brake systems. Also covered are applicable sections of Federal Railway Administration (FRA) and Department of Transportation (DOT) regulations, industry (Association of American Railroads regulations) and BNSF railway company procedures. Individuals enrolling in this two semester, 25-credit-hour program are encouraged to have foundational knowledge and experience with diesel engines. Upon completion of this program, you can earn a NARS industry certification.

Job and Salary Outlook
The railway industry is expanding its workforce to meet growth demands and replace retiring workers. According to BNSF, diesel locomotive technicians are in high demand with wages starting between $24 - $29 per hour plus benefits. According to the U.S. Department of Labor (DOL), job candidates with industry certification have a big advantage in the job market. DOL also lists Kansas among the top five states with the highest concentration of job opportunities in this field.

Entry Requirements
Students are encouraged to have foundational knowledge and take a pre-assessment exam in diesel engines. In addition, you must score a minimum of 4 in both Math and Reading on ACT WorkKeys, complete an application and submit an official copy of all transcripts.
Course Descriptions

**Diesel Engines I:** introduces the characteristics and principles of a diesel-fueled engine; theory of operation and use of engine’s mechanical parts

**Advanced Diesel Engines:** covers principles of various engine systems

**Engine Performance:** provides theory, diagnosis and service of diesel fuel and emission systems

**Basic EMD Mechanical:** introduces the basic operation, maintenance, repair requirements and trouble shooting for EMD diesel engines and support systems

**Basic GE Mechanical:** introduces the basic operation, maintenance, repair requirements and trouble shooting for GE diesel engines and support systems

**BNSF Worksite Observation:** this one hour locomotive mechanic worksite observation is designed to allow the locomotive diesel students to view the engine components at the worksite to coincide with the courses for EMD and GE diesel engines and support systems

**Locomotive Air Brake:** introduces the operation, testing, maintenance and troubleshooting for 26L and 30 ACDW locomotive air brake systems; it also emphasizes FRA air brake requirements applicable to locomotives

**Locomotive FRA:** introduces the Federal Railway Administration and Department of Transportation Code of Federal Regulations Title 49, Parts 209, 218, 229, 231 and 232

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**CHECKLIST**

- Meet with recruiter
- *Take ACT WorkKeys*
- Submit transcript(s)
- Pay enrollment fee
- *prior learning also may apply

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**TOTAL 2015-2016 PROGRAM COSTS (Estimated) - HIGH SCHOOL**

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<th>Item</th>
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<tr>
<td>Enrollment fee</td>
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<td>Tuition</td>
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<td><strong>TOTAL</strong></td>
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**ADDITIONAL ESTIMATED CHARGES**

- Tools/Books Estimate*     $315

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**TOTAL 2015-2016 PROGRAM COSTS (Estimated) - ADULT**

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**ADDITIONAL ESTIMATED CHARGES**

- Tools/Books Estimate*     $315

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*A list of required tools/books is on a separate sheet of paper and on our website, WashburnTech.edu. Students also will need to purchase supplies such as (but not limited to) pens/pencils, notebooks/paper, three-ring binder, etc. Students may purchase them at the vendor of their choice.

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