

LOCOMOTIVE DIESEL TECHNOLOGY



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 program can lead to a job with big engines and big pay.

Learning at Washburn Tech

This program's curriculum was created by the National Academy of Railroad Sciences (NARS), which is a partnership between BNSF Railway and Johnson County Community College. It covers the basic operation, maintenance, repair requirements and troubleshooting 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, skills 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. 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 the ACT WorkKeys, complete an application and submit an official copy of all transcripts.

Certifications

- NARS

CONTACT US:

785.670.2200
877.588.7140

For more programs, enrollment and course schedule information, please contact Admissions. Financial Aid is available to those who qualify.

Washburn University Institute of Technology

5724 SW Huntoon St., Topeka, Kansas 66604 | 785.670.2200 | washburntech.edu

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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

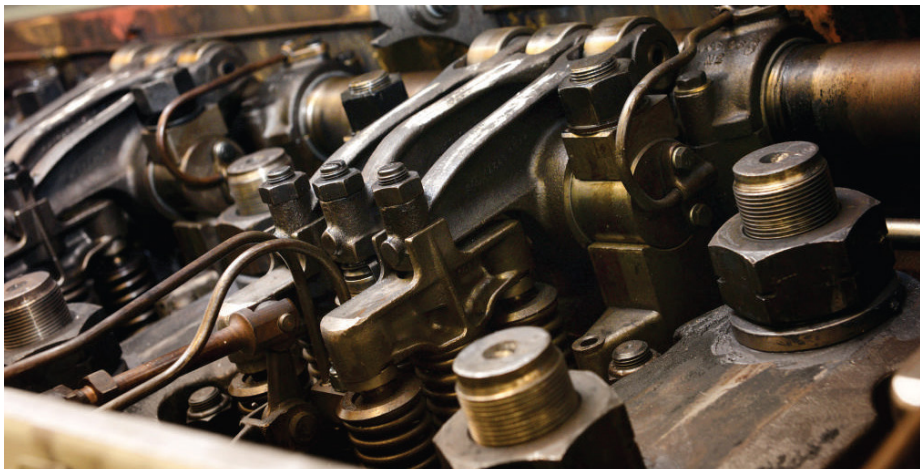
Basic EMD Mechanical: introduces the basic operation, maintenance, repair requirements and trouble shooting for EMD diesel engines and support systems

Basic GE Mechanical: introduces the 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 in the NARS curriculum

Locomotive Air Brakes: 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



* 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.

CHECKLIST

Meet with recruiter

Take ACT WorkKeys*

Submit transcript(s)

Pay enrollment fee

*some exceptions apply

TOTAL 2017-2018 PROGRAM COSTS (ESTIMATED) - HIGH SCHOOL

Enrollment fee	\$20
Tuition	FREE
All other fees	\$1,581
TOTAL	\$1,601

ADDITIONAL ESTIMATED CHARGES

Tools/Books Estimate*	\$180
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TOTAL 2017-2018 PROGRAM COSTS (ESTIMATED) - ADULT

Enrollment fee	\$50
Tuition	\$3,150
All other fees	\$1,581
TOTAL	\$4,781

ADDITIONAL ESTIMATED CHARGES

Tools/Books Estimate*	\$180
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