

DIESEL TECHNOLOGY



Heavy Equipment
A.A.S. Degree



Minimum 70 hours

Career & Technical Education • Associate in Applied Science Degree • Minimum 2.0 OGPA • Major Code: DDTHE

FIRST YEAR

Fall Semester		Credit Hrs.
MATH 151 or MATH 128	Occupational Math College Algebra*	4/3
DSL 130	Basic Mechanical Skills	3
DSL 131	Engine Electronics I	3
DSL 157	Basic Internal Combustion Engines	3
DSL 158	Hydraulics I	3
EMP 111	Employability Skills	2
Total Hours		18/17

Spring Semester		Credit Hrs.
ENG 121	Rhetoric & Composition I	3
DSL 132	Engine Electronics II	3
DSL 171	Hydraulics II	3
DSL 235	Diesel Heating & Air Cond	4
DSL 275	Diesel Engines	4
Total Hours		17

Summer Semester		Credit Hrs.
DSL 172	Occupational Experience	5
Total Hours		5

SECOND YEAR

Fall Semester		Credit Hrs.
COM 146	Business & Professional Communication	3
DSL 233	Electrical Diagnosis	5
DSL 276	Engine Fuel Systems	3
DSL 277	Power Train Fundamentals	3
DSL 133	Preventative Maintenance	4
Total Hours		18

Spring Semester		Credit Hrs.
DSL 237	Engine Diagnosis & Performance	3
DSL 238	Final Drives, Tracks & Undercarriage	3
PSYC 131 or PSYC 121	Human Relations Intro Psychology	3
Science/Health Requirement**		3/4
Total Hours		12/13

*MATH 128 is recommended.

**BIOL 141 Environmental Science or PHYS 121 Introductory Physics is recommended. HLTH 121 Personal Health may also be used.

SPECIAL REQUIREMENTS: Students are required to furnish their own tools. Tool list provided by instructors.
Safety glasses are required when working in the shop areas.

THE DIESEL LAB is located in the Robert I. Gregg Technology Center. This well-equipped lab is updated and maintained for quality training and technical instruction.

THE DIESEL TECHNOLOGY PROGRAM is certified by **National Automotive Technicians Education Foundation (NATEF)** and **National Institute for Automotive Service Excellence (ASE)**. Students have the opportunity to earn Master Certification in the following areas: T1-Gasoline Engines, T2-Diesel Engines, T3-Drive Train, T4-Brake, T5-Suspension & Steering, T6-Electrical/Electronics Systems, T7-Heating, Ventilation and Air Conditioning, T8-Preventive Maintenance Inspection.

Fabick/Caterpillar, headquartered in Fenton, Missouri, has selected Southeastern Illinois College as a training partner to fill the company's growing need for diesel technicians

Occupational information about this program is available at O*NET online www.onetonline.org. Once at that website enter the SOC Code that is listed for this program.

O*NET – SOC Code: 49-3031.00

Career Opportunities:

Diesel Mechanic, Service Manager, Parts Manager, Diesel Technician.

Major Employers:

Construction Firms: Primarily New Construction or General Land or Waterway Improvements Including Highway, Road, Bridge, Utility, Residential, Commercial, Farm, and Mining Construction or Reclamation. Public Transit Companies. Utility Companies. Heavy Equipment Dealers. Independent Heavy Equipment Repair Shops, and Heavy Equipment Leasing Companies.