

Diesel Technology

Medium & Heavy Truck Technician and Agriculture Equipment Technician diplomas

PROGRAM ADVISORS

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PROGRAM DETAILS

The Diesel Technology program at Somerset Community College offers excellent opportunities for graduates. Diesel technicians repair and maintain the diesel engines that power transportation equipment, such as heavy trucks, buses, and locomotives. Some mechanics work on bulldozers, cranes, road graders, and agricultural equipment such as farm tractors and combines.

Jobs can vary in many of the mechanic shops. Workers commonly do all kinds of repairs from working on a vehicle's electronic system one day to doing major engine repairs the next. In some large shops, mechanics specialize in one or two types of work. For example, a shop may have mechanics that specialize in major engine repair, transmission work, electrical systems, or suspension or brake systems. Diesel maintenance is becoming more complex, as electronic components increasingly are used to control engine operation. In modern shops, diesel mechanics use hand-held computers to diagnose problems and adjust engine functions. Mechanics generally receive their assignments from shop supervisors or service managers. Most supervisors and managers are experienced mechanics who also assist in diagnosing problems and maintaining quality standards.

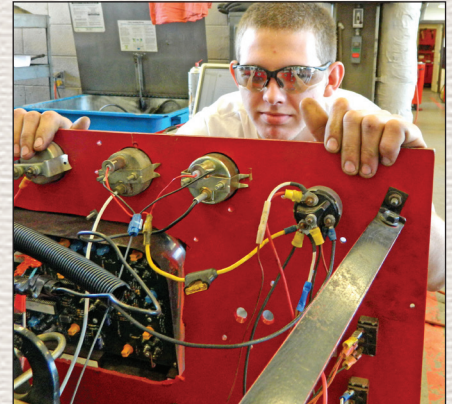
ADDITIONAL INFORMATION

The Diesel Technology program at SCC offers the following:

- 2 Diplomas: Agricultural Technician Diploma and the Medium/Heavy Truck Diploma.
- 11 Certificates specializing in Diesel engines and related auto/truck and agricultural component repairs.

PROGRAM LOCATION

Diesel Technology is located on SCC's Somerset Campus south.



EMPLOYMENT OPPORTUNITIES

Diesel mechanics held about 263,000 jobs in 2008. Workers in this field should see continued growth in the coming years with an expected increase of 75,000 jobs by 2018. Twenty five percent of the technicians service trucks and other diesel-powered equipment for customers of vehicle and equipment dealers, leasing companies, or independent automotive repair shops. Over 20 percent work for local and long-distance trucking companies, and nearly 10 percent maintain the buses and trucks of businesses, public transit companies, school systems, and federal, state, and local governments. There is an increasing number entering the repair of automobiles, boats and small engines for lawn service and generators.

DIESEL TECHNOLOGY CREDENTIALS:

CERTIFICATES:

- Mobile Air Conditioning Mechanic (12 credit hours)
- Heavy Duty Brake Technician (12 credit hours)
- Electrical/Electronics Systems Technician (12 credit hours)
- Diesel Steering & Suspension Mechanic (12 credit hours)
- Diesel Engine Mechanic (12 credit hours)
- Fluid Power Mechanic (12 credit hours)
- Preventive Maintenance Mechanic (13 credit hours)
- Heavy Duty Drive Train Mechanic (12 credit hours)
- Agriculture Equipment Mechanic Helper* (20 credit hours)
- Diesel Engine Mechanics Assistant* (27 credit hours)
- Medium & Heavy Truck Mechanic Helper* (30 credit hours)

DIPLOMAS:

- Medium & Heavy Truck Technician* (52-55 credit hours)
- Agriculture Diesel Technician* (52-55 credit hours)

*A Federal Gainful Employment program

Learn more about it on SCC's website: [somerset.kctcs.edu/Academics/Programs of Study/Diesel Technology](http://somerset.kctcs.edu/Academics/Programs_of_Study/Diesel_Technology)



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REQUIRED COURSES FOR MEDIUM & HEAVY TRUCK TECHNICIAN DIPLOMA

GENERAL EDUCATION (6 HOURS)		Credit	Grade
AREA 1	Written Communication, Oral Communication, or Humanities/Heritage	3	_____
AREA 2	Social/Behavioral Science, Natural Sciences or Quantitative Reasoning	3	_____
TECHNICAL COURSES REQUIRED (46 HOURS)			
	Computer/Digital Literacy	0-3	_____
DIT 103	Preventive Maintenance Lab	2	_____
ADX 170	Climate Control (and)	3	_____
ADX 171	Climate Control Lab	1	_____
ADX 120	Basic Automotive Electricity (and)	3	_____
ADX 121	Basic Automotive Electricity Lab OR	2	_____
BEX 100	Basic Electricity (and)	(3)	_____
BEX 101	Basic Electricity Lab	(2)	_____
DIT 190	Electrical Systems for Diesel Equipment (and)	(3)	_____
DIT 191	Electrical Systems for Diesel Equipment Lab OR	(2)	_____
ADX 260	Automotive Electrical Systems (and)	3	_____
ADX 261	Automotive Electrical Systems Lab	2	_____
DIT 110	Introduction to Diesel Engines (and)	3	_____
DIT 111	Introduction to Diesel Engines Lab OR	2	_____
ADX 150	Automotive Engine Repair (and)	(3)	_____
ADX 151	Automotive Engine Repair Lab	(2)	_____
DIT 112	Diesel Engine Repair	3	_____
DIT 113	Diesel Engine Repair Lab	2	_____
DIT 160	Steering and Suspension	3	_____
DIT 161	Steering and Suspension Lab	2	_____
DIT 180	Brakes	3	_____
DIT 181	Brakes Lab	2	_____
DIT 150	Powertrains	3	_____
DIT 151	Powertrains Lab	2	_____
DIT 140	Hydraulics	3	_____
DIT 141	Hydraulics Lab OR	2	_____
FPX 100	Fluid Power (and)	(3)	_____
FPX 101	Fluid Power Lab	(2)	_____

TOTAL HOURS FOR PROGRAM — 52 - 55

SEMESTER COURSE LISTING

Class	(Alternative)	Credit
ANY SEMESTER (17 HOURS)		
ADX 170 (and)	(_____)	_____
ADX 171	(_____)	_____
ADX 120 (and)	(_____)	_____
ADX 121 OR	(_____)	_____
BEX 100 (and)	(_____)	_____
BEX 101	(_____)	_____
DIT 190 (and)	(_____)	_____
DIT 191 OR	(_____)	_____
ADX 260 (and)	(_____)	_____
ADX 261	(_____)	_____
SPRING SEMESTER (13 HOURS)		
DIT 110 (and)	(_____)	_____
DIT 111 OR	(_____)	_____
ADX 150 (and)	(_____)	_____
ADX 151	(_____)	_____
DIT 112	(_____)	_____
DIT 113	(_____)	_____
AREA 2 Class	(_____)	_____
Computer Literacy (if needed)		_____
FALL SEMESTER (17 HOURS)		
DIT 103	(_____)	_____
DIT 160	(_____)	_____
DIT 161	(_____)	_____
DIT 180	(_____)	_____
DIT 181	(_____)	_____
DIT 150	(_____)	_____
DIT 151	(_____)	_____
FOURTH SEMESTER (11 HOURS) 12 optional		
DIT 140	(_____)	_____
DIT 141 OR	(_____)	_____
FPX 100 (and)	(_____)	_____
FPX 101	(_____)	_____
AREA 1 Class	(_____)	_____
DIT 198 (Optional)	(_____)	_____
DIT 199 (Optional)	(_____)	_____

TOTAL HOURS FOR PROGRAM — 52 - 55

STUDENT _____ ID NO. _____ DATE _____

SIGNATURE _____ ADVISOR _____