



**DIESEL AND HEAVY
EQUIPMENT MECHANICS**

Degree Options:

- Associate of Applied Science
- Associate of Arts/Science

Program Description:

Diesel Equipment Technicians repair and maintain diesel engine powered equipment. The diesel equipment technology program at CEU has been designed to prepare a student for a career in either "on highway" or "off road" industry by offering theory and hand on instruction related to the common sub-systems used in both equipment areas. By taking broad spectrum of classes, a student is able to get a feel for the diesel industry. A student will also be able to narrow their focus to a particular emphasis, while the experience in various study areas provides for diversified employment opportunities upon completion. Live work is incorporated into all courses as it becomes available and as it fits into the curriculum.

Career Opportunities:

Career opportunities are available in the following areas: Diesel Engine Mechanic, Engine Machinist, On Highway Tractor/Trailer Technician, Heavy Equipment Technician, Fluid Power Technician, Automatic Transmission Technician, Drive Train Technician, Alignment, Suspension & Steering Technician, Electrical Systems Technician, Sales or Service Representative, or Education.

Tools:

A diesel technician uses a wide variety of tools for troubleshooting and repairing equipment from common hand tools to micrometers and bore gauges to a lap top computer. All students are required to have their own set of tools to use in lab classes. Student sets are available for purchase at 1/2 price from either Snap-On or MAC tools. The department will provide all special tools.

Special Requirements:

Due to the technical nature of service manuals, technical bulletins, and the frequent use of detailed, written procedures and measuring tools, it is essential that students have good reading comprehension skills (ENGL 1010 level) and math skills that ensure readiness to complete Math 1020. Students will also have to pass the computer literacy test.

ASSOCIATE OF APPLIED SCIENCE

Odd Year:

<u>Fall Semester</u>	
DSME 1000	Intro. to Transportation Technology I (1 st semester) 4
DSME 1110	Diesel Engine Overhaul Theory 4
DSME 1130	Diesel Engine Overhaul Lab 4
MACH 1140	Engine Machining Theory 2
MACH 1160	Engine Machining Lab . . . 2
ENGL 1010	Introduction to Writing . . . 3
Semester Total 15-19	

<u>Spring Semester</u>	
DSME 2210	Advanced Diesel Engine Theory 5
DSME 2230	Advanced Diesel Engine Lab 5
BCIS 1010	Computer Literacy 3
MATH 1020	Trade Mathematics 3
-or-	
A higher numbered Math course 3	
WELD 1010	Basic SMAW 3
Semester Total 19	

Even Year:

<u>Fall Semester</u>	
DSME 1000	Intro. to Transportation Technology I (1 st semester) 4
DSME 1340	Electrical and Electronics Theory 4
DSME 1360	Electrical and Electronics Lab 3
HYDR 1310	Fluid Power Theory 5
HYDR 1330	Fluid Power Lab 4
Semester Total 15-19	

<u>Spring Semester</u>	
DSME 2410	Heavy Duty Chassis and Power Train Theory 5
DSME 2430	Heavy Duty Chassis and Power Train Lab 5
DSME 2440	Mobile Air Conditioning Theory 2
DSME 2460	Mobile Air Conditioning Lab 1
	Human Relations Course 3
	Semester Total 16
Program Total	69

PLEASE REFER TO THE CEU GENERAL CATALOG FOR A LISTING OF AA/AS GENERAL EDUCATION COURSES & DEGREE REQUIREMENTS.

For more information contact:

Diesel Mechanics Advisor
 Dean Collard
 College of Eastern Utah
 Career Center 105
 451 E. 400 N.
 Price, UT 84501
 (435)613-5211
dean.collard@ceu.edu

- OR -

Center for Academic Advisement
 College of Eastern Utah
 Student Center 207
 451 E. 400 N.
 Price, UT 84501

Advisors:
 Darlene Severeid
 (435)613-5311
darlene.severeid@ceu.edu
 Shanny Wilson
 (435)613-5623
shanny.wilson@ceu.edu