

DIESEL MECHANICS CERTIFICATE

Major Code: 3243

Provides students a one-year college-level experience of specialized training in Diesel Mechanics. The Diesel Mechanics certificate program provides fundamental skills for entry-level service positions in heavy construction equipment, focused on systems and service knowledge of large construction equipment and heavy-duty trucks. Included are subject areas such as hydraulics, electricity, electronics, diesel engines, construction machinery, transmissions, heavy truck systems and other related topics.

Upon successful completion of this certificate program, students will be able to:

- Describe the mechanical function of the compression-ignition engines, modern construction equipment and heavy-duty trucks.
- Compare electrical systems and electronic controls used on diesel-powered construction equipment and heavy-duty trucks.
- Recognize hydraulic systems, components and control systems used for transmitting hydraulic power in diesel-powered construction equipment and heavy-duty trucks.
- Demonstrate the ability to accurately and efficiently diagnose and repair failures in mechanical, electrical and hydraulic systems in diesel-powered construction equipment and heavy-duty trucks.

A minimum of 28 credits is required for certificate completion.

Code	Title	Credits
Required Coursework		
AGEN 100	Equipment Care & Maintenance	3
AGEN 131	Fundamentals of Hydraulics	3
DTEC 125	Diesel Electrical Systems	4
AGEN 161	Basic Hydraulics	3
DTEC 105	Diesel Powertrains I	4
DTEC 110	Diesel Powertrains II	4
DTEC 150	Diesel Systems	3
DTEC 225	Diesel Electronics	4
Optional Coursework		
DTEC 290	Diesel Equip Tech Internship 1	1
Total Credits		29