

# DIESEL TECHNOLOGY

Emphasizes the skills needed to analyze malfunctions and repair, rebuild and maintain construction equipment, agriculture equipment, or medium and heavy trucks in this program of study. Provides instruction and experience in systems such as diesel engines, fuel injection, onboard computers, transmissions, steering and suspension, and brakes.

A student must receive a grade of "C" or better to receive credit for successful completion of courses in the diesel technology curriculum.

## Degrees

- Diesel Technology - AAS (<https://catalog.kctcs.edu/programs-of-study/aas/diesel-technology/diesel-technology-aas/>)
  - Agriculture Diesel Technician Track (<https://catalog.kctcs.edu/programs-of-study/aas/diesel-technology/diesel-technology-aas/#agriculturedieseltechniciantrack>)
  - Construction Equipment Technician Track (<https://catalog.kctcs.edu/programs-of-study/aas/diesel-technology/diesel-technology-aas/#constructionequipmenttechniciantrack>)
  - Medium and Heavy Truck Technician Track (<https://catalog.kctcs.edu/programs-of-study/aas/diesel-technology/diesel-technology-aas/#mediumandheavytrucktechniciantrack>)

## Diplomas

- Agriculture Equipment Technician - Diploma (<https://catalog.kctcs.edu/programs-of-study/aas/diesel-technology/agriculture-equipment-technician-diploma/>)
- Construction Equipment Technician - Diploma (<https://catalog.kctcs.edu/programs-of-study/aas/diesel-technology/construction-equipment-technician-diploma/>)
- Medium and Heavy Truck Technician - Diploma (<https://catalog.kctcs.edu/programs-of-study/aas/diesel-technology/medium-heavy-truck-technician-diploma/>)

## Certificates

- Agriculture Equipment Mechanic Helper - Certificate (<https://catalog.kctcs.edu/programs-of-study/aas/diesel-technology/agriculture-equipment-mechanic-helper-certificate/>)
- Construction Equipment Mechanic Helper - Certificate (<https://catalog.kctcs.edu/programs-of-study/aas/diesel-technology/construction-equipment-mechanic-helper-certificate/>)
- Diesel Engine Mechanic - Certificate (<https://catalog.kctcs.edu/programs-of-study/aas/diesel-technology/diesel-engine-mechanic-certificate/>)
- Diesel Mechanics Assistant - Certificate (<https://catalog.kctcs.edu/programs-of-study/aas/diesel-technology/diesel-mechanics-assistant-certificate/>)
- Diesel Steering & Suspension Mechanic - Certificate (<https://catalog.kctcs.edu/programs-of-study/aas/diesel-technology/diesel-steering--suspension-mechanic-certificate/>)
- Electrical/Electronics Systems Mechanic - Certificate (<https://catalog.kctcs.edu/programs-of-study/aas/diesel-technology/electralelectronics-systems-mechanic-certificate/>)
- Fluid Power Mechanic - Certificate (<https://catalog.kctcs.edu/programs-of-study/aas/diesel-technology/fluid-power-mechanic-certificate/>)

- Heavy Duty Brake Mechanic - Certificate (<https://catalog.kctcs.edu/programs-of-study/aas/diesel-technology/heavy-duty-brake-mechanic-certificate/>)
- Heavy Duty Drive Train Mechanic - Certificate (<https://catalog.kctcs.edu/programs-of-study/aas/diesel-technology/heavy-duty-drive-train-mechanic-certificate/>)
- Medium and Heavy Truck Mechanic Helper - Certificate (<https://catalog.kctcs.edu/programs-of-study/aas/diesel-technology/medium-heavy-truck-mechanic-helper-certificate/>)
- Mobile Air Conditioning Mechanic - Certificate (<https://catalog.kctcs.edu/programs-of-study/aas/diesel-technology/mobile-air-conditioning-mechanic-certificate/>)
- Preventive Maintenance Mechanic - Certificate (<https://catalog.kctcs.edu/programs-of-study/aas/diesel-technology/preventive-maintenance-mechanic-certificate/>)
- Undercarriage Mechanic - Certificate (<https://catalog.kctcs.edu/programs-of-study/aas/diesel-technology/undercarriage-mechanic-certificate/>)

## Recommended Technical Electives (Program Coordinator Approval Required)

Course	Title	Credits
DIT 180	Brakes	3
DIT 181	Brakes Lab	2
DIT 160	Steering and Suspension	3
DIT 161	Steering and Suspension Lab	2
Select one of the following:		3-5
DIT 121	Introduction to Maintenance Welding Lab	
IMT 100 & IMT 101	Welding for Maintenance and Welding for Maintenance Lab	
WLD 120 & WLD 121	Shielded Metal Arc Welding and Shielded Metal Arc Welding Fillet Lab	
DIT 123	Undercarriage Lab	3
DIT 152	Powertrain for Construction Equipment	3
DIT 153	Powertrain for Construction Equipment Lab	2
DIT 105	Mechanical Principles	1-3
or PMX 100	Precision Measurement	
DIT 198	Practicum	1
DIT 298	Practicum	2
DIT 199	Cooperative Education	1

Or other courses as approved by the Program Coordinator that will prepare the student for the workforce