

# Diesel Service Technicians and Mechanics

SOC: 49-3031 • Career Profile Report

## ■ Key Facts

<b>\$60,640</b> Median Salary	<b>319,900</b> Employment	<b>+2.0%</b> Growth Rate
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## ■ Requirements & Salary Range

**Education:** High school diploma

## ■ Automation Risk Assessment

**Low Risk** - 25.0% probability of being automated in the next 10-20 years.  
This job is relatively safe from automation due to its creative, social, or complex problem-solving requirements.

## ■ Work-Life Balance

**7.0/10** - Good work-life balance

## ■ Personality Fit (RIASEC)

Higher scores indicate better personality fit for this career type.

<b>Realistic</b>	8.8/10	<b>Investigative</b>	7.4/10
<b>Artistic</b>	4.4/10	<b>Social</b>	5.6/10
<b>Enterprising</b>	4.6/10	<b>Conventional</b>	6.4/10

## ■ Top Skills Required

Customer-service skills, Detail oriented, Dexterity, Mechanical skills, Organizational skills, Physical strength, Troubleshooting skills

### ✓ Strengths

- High Demand
- Flexible Work
- Continuous Learning

### ■ Challenges

- Burnout Risk
- Rapid Technological Change

## ■ What They Do

Diesel Service Technicians and Mechanics typically perform the following tasks:

- Use handtools, such as screwdrivers, pliers, wrenches, pressure gauges, or precision instruments, as well as power tools, such as pneumatic wrenches, lathes, welding equipment, or jacks and hoists.
- Inspect brake systems, steering mechanisms, wheel bearings, and other important parts to ensure that they are in proper operating condition.
- Raise trucks, buses, and heavy parts or equipment using hydraulic jacks or hoists.
- Adjust and reline brakes, align wheels, tighten bolts and screws, and reassemble equipment.
- Attach test instruments to equipment, and read dials and gauges to diagnose malfunctions.
- Perform routine maintenance such as changing oil, checking batteries, and lubricating equipment and machinery.
- Examine and adjust protective guards, loose bolts, and specified safety devices.
- Inspect, test, and listen to defective equipment to diagnose malfunctions, using test instruments such as handheld computers, motor analyzers, chassis charts, or pressure gauges.
- Rewire ignition systems, lights, and instrument panels.
- Test drive trucks and buses to diagnose malfunctions or to ensure that they are working properly.
- Diagnose and repair vehicle heating and cooling systems.
- Inspect, repair, and maintain automotive and mechanical equipment and machinery, such as pumps and compressors.
- Inspect and verify dimensions and clearances of parts to ensure conformance to factory specifications.
- Disassemble and overhaul internal combustion engines, pumps, generators, transmissions, clutches, and differential units.
- Adjust or repair computer controlled exhaust emissions devices.
- Rebuild gas or diesel engines.
- Specialize in repairing and maintaining parts of the engine, such as fuel injection systems.
- Recondition and replace parts, pistons, bearings, gears, and valves.
- Install or repair accessories.
- Repair or adjust seats, doors, or windows.

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Source: <https://www.bls.gov/ooh/installation-maintenance-and-repair/diesel-service-technicians-and-mechanics.htm>