

7312 Heavy Duty Equipment Mechanic

Heavy-duty equipment mechanics repair, troubleshoot, adjust, overhaul and maintain mobile heavy-duty equipment used in construction, transportation, forestry, mining, oil and gas, material handling, landscaping, land clearing, farming and similar activities. They are employed by companies which own and operate heavy equipment, and by heavy equipment dealers, rental and service establishments, and railway transport companies and urban transit systems.

Example Titles

Construction Equipment Mechanic
Diesel Mechanic – Heavy Equipment
Farm Equipment Mechanic
Heavy Equipment Mechanic
Heavy Mobile Logging Equipment Mechanic
Heavy Mobile Mining Equipment Mechanic
Heavy-Duty Equipment Mechanic Apprentice
Heavy-Duty Equipment Technician
Locomotive Mechanic
Tractor Mechanic

Main Duties

Heavy-duty equipment mechanics perform some or all of the following duties:

- Check bulldozers, cranes, graders and other heavy construction, agricultural, logging and mining equipment for proper performance and inspect equipment to detect faults and malfunctions;
- Diagnose faults or malfunctions using computerized and other testing equipment to determine extent of repair required;
- Adjust equipment and repair or replace defective parts, components or systems, using hand and power tools;
- Test repaired equipment for proper performance and to ensure that work meets manufacturers' specifications;
- Clean, lubricate and perform other routine maintenance work on equipment;
- Service attachments and working tools such as harvesting and tillage equipment, blades, ploughs, winches and side booms;
- May perform repair work on heavy trucks;
- May attach components and adjust new farm equipment.

Heavy-duty and farm equipment mechanics may specialize in specific types of machinery such as combines or tracked vehicles, or in engine overhaul, power shift transmissions, fuel injection, hydraulics or electronics.

Employment Requirements

- Completion of secondary school is usually required;
- Completion of a three- to five-year apprenticeship program
or
A combination of over four years of work experience in the trade and some high school, college or industry courses in heavy equipment repair is usually required to be eligible for trade certification;
- Heavy-duty equipment mechanic trade certification is compulsory in Quebec and Alberta and available, but voluntary, in all other provinces and the territories;
- Farm equipment mechanic trade certification is available, but voluntary, in Newfoundland, Prince Edward Island, Nova Scotia, New Brunswick, Ontario, Manitoba, Saskatchewan, Alberta and British Columbia;
- Interprovincial trade certification (Red Seal) is also available to qualified heavy-duty equipment technicians and farm equipment mechanics.

Additional Information

- Progression to supervisory positions is possible with experience.
- Red Seal trade certification allows for inter-provincial mobility.

Classified Elsewhere

Construction Millwrights and Industrial Mechanics (Except Textile) (7311)
Motor vehicle diesel engine mechanics (in 7321 Automotive Service Technicians, Truck and Bus Mechanics and Mechanical Repairers)
Supervisors of Heavy Equipment Mechanics (in 7216 Contractors and Supervisors, Mechanic Trades)

Other Titles

apprentice farm equipment mechanic
apprentice farm machinery mechanic
apprentice mechanic, diesel engines
apprentice mechanic, farm equipment
apprentice mechanic, farm machinery
backhoe mechanic
caterpillar tractor repairer
caterpillar tractor repairman
caterpillar tractor repairwoman

heavy mobile equipment repairman/woman
heavy mobile equipment repairwoman
heavy mobile logging equipment mechanic
heavy mobile mining equipment mechanic
heavy-duty equipment mechanic
heavy-duty equipment mechanic apprentice
heavy-duty equipment technician
heavy-duty equipment technician apprentice
inspector-repairer, heavy equipment

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combination mechanic, heavy equipment
construction equipment mechanic
construction equipment repairman
construction equipment repairman/woman
construction equipment repairwoman
crane repairer
crane repairman
crane repairwoman
crane service technician
diesel engine mechanic
diesel engine mechanic - heavy equipment
diesel engine mechanic apprentice
diesel engine repairman - railway
diesel engine repairman/woman - railway
diesel engine repairwoman - railway
diesel locomotive repairman
diesel locomotive repairman/woman
diesel locomotive repairwoman
diesel mechanic
diesel mechanic - heavy equipment
diesel mechanic apprentice
dredge mechanic
dredge repairer
dredge repairman
dredge repairwoman
earthmoving equipment mechanic
excavating equipment mechanic
farm equipment mechanic
farm equipment technician
farm machinery mechanic
farm tractor mechanic
farm tractor repairer
farm tractor repairman
farm tractor repairwoman
felling equipment mechanic
field mechanic, heavy equipment
fuel injection unit serviceman - diesel
fuel injection unit servicer - diesel
fuel injection unit servicewoman - diesel
grading equipment mechanic
heavy diesel engine mechanic
heavy equipment combination mechanic
heavy equipment field mechanic
heavy equipment inspector-repairer
heavy equipment inspector-repairman
heavy equipment inspector-repairwoman
heavy equipment mechanic
heavy equipment mechanic - diesel engine
heavy mobile equipment repairer
heavy mobile equipment repairman

inspector-repairman, heavy equipment
inspector-repairwoman, heavy equipment
journeyman heavy-duty equipment mechanic
journeyman/woman heavy-duty equipment
mechanic
journeywoman heavy-duty equipment mechanic
locomotive mechanic
locomotive repairman, diesel
locomotive repairman/woman, diesel
locomotive repairwoman, diesel
mechanic, backhoe
mechanic, construction equipment
mechanic, earthmoving equipment
mechanic, excavating equipment
mechanic, farm equipment
mechanic, farm machinery
mechanic, farm tractors
mechanic, heavy diesel engines
mechanic, heavy equipment
mechanic, heavy equipment - diesel engine
mechanic, locomotive
mechanic, mobile logging equipment
mechanic, mobile mining equipment
mechanic, repairer
mechanic, repairman
mechanic, repairwoman
mechanic, sideboom
mechanic, tractor
mine locomotive repairman
mine locomotive repairman/woman
mine locomotive repairwoman
mobile farm equipment mechanic
mobile farm machinery repairer
mobile farm machinery repairman
mobile farm machinery repairwoman
paving equipment mechanic
power shovel mechanic
repairer, farm tractors
repairman, diesel locomotives - railway
repairman, farm tractors
repairman/woman, diesel locomotives - railway
repairwoman, diesel locomotives - railway
repairwoman, farm tractors
sideboom mechanic
tractor mechanic
tractor mechanic, farm
tractor repairer, farm
tractor repairman, farm
tractor repairwoman, farm
wheelwright, farm machinery

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