

## **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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