

## **HEAVY EQUIPMENT MECHANIC II**

### **DEFINITION OF WORK**

Positions in class perform skilled mechanical work in the repair and maintenance of heavy construction equipment and automotive vehicles. Work is performed under general supervision and may be reviewed and inspected in progress or upon completion. Positions assigned to this classification are distinguished from the Heavy Equipment Mechanic I and the Heavy Equipment Master Mechanic by level of diagnosis and repair work performed. Employees in this class normally perform work on moderately complex to complex mechanical systems and ancillary components/equipment. Employees may perform all of the work functions associated with the Heavy Equipment Mechanic I, but spend the majority of the time devoted to more complex mechanical system diagnosis and repair work.

### **EXAMPLES OF WORK**

Employees perform a range of tasks involving the service, inspection, repair, rebuild, and diagnosis of a number of mechanical systems for a variety of gasoline, diesel, and alternative powered engines/equipment. Work ranges from inspection and service to complex mechanical systems analysis using diagnostic instruments. Employees diagnose and troubleshoot malfunctions in automotive, heavy/light trucks, and heavy construction equipment; assume responsibility for more complex repair projects; and assist and advises less-experienced mechanics. Employees adjust and make repairs to engines; remove engines, transmissions, and final drives from equipment; and rebuild or replace worn or defective parts. Employees repair and adjust air and hydraulic brakes, hydraulic and vacuum operated systems; replace hydraulic motors, hoses and fittings; and install and adjust power take-offs. They may tune engines by adjusting or replacing needed parts; make repairs to clutches, transmissions, differentials, brakes, steering mechanisms and related units; and machine drums and rotors. Employees perform major mechanical repairs and adjustments on power drive, brake, steering, electrical, fuel, cooling, and related systems on vehicles; and remove, rebuilds and installs engines. Employees perform a variety of diagnosis, maintenance and repair activities on various pieces of equipment including but not limited to heavy duty trucks, excavators, high pressure pumps, 25 to 30 ton dump trucks, large to small bulldozers, earth graders, cranes, backhoes. Employees perform related work as required.

### **EMPLOYMENT STANDARDS**

#### **Education and Experience:**

High school or General Educational Development diploma and four years of experience in the repair of vehicles and/or heavy equipment; or an equivalent combination of education and experience.

#### **Knowledge, Skills, and Abilities:**

Knowledge, skills, and ability to perform a variety of recurring and related tasks using steps and processes that are readily understood and that are associated with moderately complex to complex systems and components. Thorough knowledge of the standard practices, tools, materials and equipment used in the diagnosis, repair and maintenance of a variety of gasoline and diesel powered vehicles and heavy equipment; and operating principles of gasoline and diesel engines, and of the standard mechanical components of automotive and related

equipment. Considerable knowledge of the occupational hazards and safety precautions of equipment repair work and shop operations. Skill in the use and care of tools, equipment, and materials used in the diagnosis, maintenance and repair of automotive, heavy construction and related equipment. Exercise analytical judgment in detecting malfunctions in mechanical equipment; and maintain effective working relationships as necessitated by work assignments.

### **SPECIAL REQUIREMENTS**

Must have and maintain a valid NC Class A CDL driver's license with HAZMAT endorsement with an acceptable driving record and a law enforcement background check. Possession of Automotive Service of Excellence (ASE) certification in brake systems and preventive maintenance inspections to be completed within one year of hire. Certified in CFC recovery to be completed within one year of hire. Background check with local law enforcement agency required. Must have and maintain a valid North Carolina driver's license with an acceptable driving record. Condition of Employment: Each applicant who is tendered an offer for employment for any position with Cumberland County shall be tested for the use of drugs specified in the County policy. Refusal to submit to testing or a confirmed positive test shall be basis for withdrawal of the conditional employment offer. Must meet industrial physical examination for sight, hearing, cardiovascular, pulmonary, chest x-rays, blood pressure, blood sugar and lead levels, chemistry profiles such as cholesterol and liver functioning, etc., prior to employment. Must possess a master mechanics tool set.

### **ADA REQUIREMENTS**

Employees are subject to hazards while working inside the shop, in confined spaces, while exposed to heavy machinery and during times working in an outside environment. Employees may be exposed to various hazards such as loud noises, and hazardous spills with fumes, oils, gases, or flammable liquids. Work may subject employee to compliance with final OSHA standards on bloodborne pathogens.

### **PHYSICAL REQUIREMENTS**

Must be able to physically perform the basic life operational functions of standing, walking, hearing, kneeling, reaching, feeling, grasping, pushing, pulling, bending, climbing, crawling, fingering, and performing repetitive motions. This is medium to heavy work requiring the exertion of 100 pounds of force occasionally, up to 50 pounds of force frequently, and up to 20 pounds of force constantly to move objects. Vocal communication is required for expressing ideas; hearing is required to perceive information at normal spoken word levels; visual acuity is required for depth perception, color perception, preparing and analyzing written or computer data, visual inspection involving small defects and/or small parts, use of measuring devices, assembly or fabrication of parts at or within arm's length, operation of machines, and operation of motor vehicles or equipment; the worker is subject to inside and outside environmental conditions, extreme cold, extreme heat, noise, hazards, atmospheric conditions, and oils, various chemicals used in normal shop operations.