

LANCASTER COUNTY DIESEL TECHNICIAN

NATURE OF WORK

This is skilled mechanical work in the maintenance and repair of diversified medium and heavy construction equipment.

Work involves the responsibility for the maintenance and repair of a wide variety of both conventional and specialized equipment and motorized machinery. An employee in this class performs the most complex maintenance and repair functions for medium and heavy construction equipment and related machinery including major overhauls of engines, transmissions, and multi-speed differentials. An employee in this class performs the actual repair and maintenance work and tests equipment to ensure the work has been performed satisfactorily. General supervision is received from a technical superior with work reviewed in progress and upon completion.

EXAMPLES OF WORK PERFORMED

Diagnose malfunctions, which may require utilizing computerized diagnostic equipment, and repair a wide variety of medium and heavy construction equipment; perform routine maintenance for a variety of construction equipment.

Perform major engine overhauls including replacing rings and bearings, overhauling carburetors and related engine components; perform routine maintenance and necessary major overhauls of transmissions, clutches, differentials, brake, exhaust and fuel systems; diagnose and repair air conditioning systems.

Remove and replace defective generators, alternators, starters and repair related electrical system components; overhaul and replace water pumps, fuel pumps, oil pumps and related components; install, calibrate and repair specialized law enforcement equipment.

Obtain and interpret installation and repair manuals and guides for vehicles and specialized equipment; monitor service bulletins; maintain records of maintenance and repair functions performed; document repairs, mileage/hours and fluids required on repair orders; assist in ordering specialized parts and confirming receipt of orders.

DESIRABLE KNOWLEDGE, ABILITIES, AND SKILLS

Considerable knowledge of the construction, maintenance and repair of a wide variety of both conventional and specialized medium and heavy equipment components.

Considerable knowledge of specialized tools and equipment used in the maintenance and repair of medium and heavy construction equipment.

Ability to diagnose, detect, repair and maintain medium and heavy equipment engine components.

Ability to inspect, test and detect any worn, defective, or improperly adjusted equipment components.

Ability to use technical manuals and resource books to obtain replacement parts and confirm repair operations and testing procedures.

Ability to communicate effectively both orally and in writing.

Ability to follow oral and written instructions.

Ability to interpret wiring schematics and perform intricate wiring procedures.

Ability to instruct and supervise subordinates engaged in minor equipment repairs.

Skill in the diagnosis of defects and failures of specialized, medium and heavy equipment.

Skill in the use and operation of specialized tools and equipment including computerized diagnostic equipment.

MINIMUM QUALIFICATIONS

Graduation from high school plus two years of experience in medium and heavy construction equipment maintenance and repair; or any equivalent combination of training and experience that provides the desirable knowledge, abilities and skills.

NECESSARY SPECIAL REQUIREMENT

Possession of a valid driver's license when operating a vehicle is necessary for the satisfactory performance of assigned duties.

Employees must possess and maintain a valid Nebraska Commercial Driver's License (CDL and any applicable endorsements within 60 days.

Possession of certification in Motor Vehicle Refrigerant Servicing as specified in EPA Section 609 guidelines or the ability to obtain certification within 6 months of appointment.