

BRAKE AND FRONT END SPECIALIST

DEFINITION

Under general supervision, performs specialized mechanical and repair work in front end alignment, and brakes; and provides lead direction for preventative maintenance activities.

SUPERVISION RECEIVED/EXERCISED

Receives supervision from a Manager or designee. Exercises no supervision.

DISTINGUISHING CHARACTERISTICS

Brake and Front End Specialist is responsible for performing specialized mechanical front end repair and alignment and brake repair duties primarily on medium and heavy construction equipment and trucks. The incumbent provides lead direction to other equipment service personnel. This class is distinguished from other equipment repair classes by its special emphasis on medium and heavy construction equipment and truck brake and front end repair.

EXAMPLES OF IMPORTANT AND ESSENTIAL DUTIES

May include, but are not limited to, the following:

Inspects, diagnoses, tests and repairs air brake supply and service systems, mechanical and foundation systems, parking and emergency brakes, hydraulic and hydro-vac systems, power assist units and related systems.

Inspects and diagnoses front ends for needed repair; replaces bushings; rebuilds front ends, king pins, gearboxes, and tie rod ends; adjusts and rebuilds steering gear boxes; installs parts using hand and power tools.

Assigns and provides lead direction for preventative maintenance activities and inspects work of subordinates upon completion.

Performs related duties as required.

JOB RELATED AND ESSENTIAL QUALIFICATIONS

Knowledge of:

The standard practices, repair techniques, tools, and materials used in brake and front end repair.

Techniques involved in preventative maintenance of brakes, front ends, axle assemblies, gearboxes, suspension and steering mechanisms.

Occupational hazards and safety precautions of the trade.

Skill/Ability to:

Provide lead direction and instruction to subordinate employees.

Diagnose malfunctioning mechanical systems/subsystems, such as hydraulics, or related electrical repairs.

Adapt available tools and repair parts to specific repair problems.

Understand and carry out written and oral instructions.

Establish and maintain effective working relationships.

Use and operation of tools and machinery used in brake, front end repairs and alignment.

MINIMUM QUALIFICATIONS

Two (2) years of journey level medium/heavy construction equipment and truck experience specializing in front end and brake repair.

SPECIAL REQUIREMENTS

Possession of a valid Class C California Driver's License is required at the time of application and continued maintenance throughout the entire term of employment in this classification.

Must acquire a valid Class B California Commercial Driver's License, without air brake restriction, within thirty (30) days of appointment and maintain a valid Class B California Commercial Driver's license for the entire term of employment in this classification.

PHYSICAL DEMANDS

The physical demands described here are representative of those that are necessary to safely, effectively, and efficiently perform the essential functions of this job with or without reasonable accommodation.

This classification's physical demands involve heavy work exerting up to 100 pounds of force occasionally with assistance, and/or up to 50 pounds of force frequently, and/or up to 20 pounds of force constantly to move objects. Additionally, the following physical demands may be required: balancing, climbing, crawling, crouching, feeling, manual dexterity, grasping, handling, hearing, kneeling, lifting, mental acuity, pulling, pushing, reaching, repetitive motion, speaking, standing, stooping, talking, visual acuity, walking.

APPROVED: Signature on File
Director of Personnel Services

DATE: 10/20/2025