

Specification for Class of

EQUIPMENT MECHANIC 1

Abolished Initially Effective January 13, 2006

Abolished Final Effective February 10, 2006

Class Series Intent: Equipment Mechanics and Supervisors in this series supervises and/or performs preventative maintenance and repair on light and heavy wheeled and tracked vehicles, equipment and trailers, earth moving and construction wheeled and tracked vehicles and roadway and roadside maintenance vehicles and equipment in shop and/or field. This series is differentiated from the Automotive Mechanic and Supervisor series in that the majority of time is spent servicing, repairing or supervising the repair and servicing of heavy and industrial/commercial equipment and vehicles (such as: wheeled and tracked equipment, power generators, pumps, agricultural equipment and specialized marine equipment) rather than automobiles or light pickup trucks.

Definition: Inspects, diagnoses and makes major and minor mechanical repairs, and performs preventative maintenance, on all types of equipment used in highway maintenance or heavy and/or industrial/commercial equipment (such as: wheeled and tracked equipment, power generators, pumps, agricultural equipment and specialized marine equipment).

Typical Work

Inspects, diagnoses and makes needed repairs to equipment such as: vehicles over 15,000 GVW, mechanical equipment as speciality trucks, power shovels, graders, backhoes, dozers, heavy trucks and accessories, snow blowers, loaders, rollers, sweepers, oil distributors, catch basin cleaners, and all other state-owned equipment used in highway maintenance and engineering;

Inspects, diagnose, and makes repairs to industrial/commercial equipment such as: pumps, generators, farm implements, including major engine overhauls, tuneups, relining and adjusting brakes, wheel alignments, transmission and differential replacement and repair, and electrical replacement and repair;

Operates such shop equipment as grinders, boring bars, vacuum gauge, voltage and regulator testor, wheel balancer,

drill press, wheel pullers, lathes, jacks, air tools, scope, dwell meter, timing light and various hand tools and other equipment used in heavy and/or industrial/commercial equipment repair;

Repairs and maintains steering and suspension systems;

Diagnoses and repairs hydraulic and air brake systems including anti-lock brake systems;

Designs, diagnoses, repairs, and installs hydraulic systems;

Operates low boy to or from the equipment shop;

Road tests vehicles and equipment;

Uses a computer to update and maintain shop records;

Performs machinist, body repair, painting, or welding fabrication work;

Oversees the work of shop assistants;

Performs other work as required.

Knowledge and Abilities:

Knowledge of: standard practices, methods, materials, tools, and equipment of mechanic trade; principles of operation of internal combustion engines; use of testing and diagnostic equipment; safety practices.

Ability to: inspect, diagnose trouble, adjust, maintain, and repair heavy and/or industrial equipment; estimate materials and time needed to complete jobs; use hand and power tools; weld, fabricate and braze.

Minimum Qualifications

High school graduation or possession of a GED certificate.

AND

Four years of experience in the performance of preventative maintenance and repairs assisting a journey level mechanic, including two years as an Equipment Shop Assistant.

Successful completion of vocational technical training in heavy equipment and/or industrial/commercial equipment

repair, including welding may substitute year for year for up to two years of the non-Equipment Shop Assistant experience.

OR

One year of experience as a journey-level mechanic maintaining and repairing heavy-duty equipment.

OR

Journey-level standing as a heavy equipment and/or industrial/commercial mechanic as demonstrated by completion of a recognized apprenticeship; or by journey-level standing as recognized by a labor union;

A valid driver's license is required.

NOTE: In the Department of Transportation, a Class A Commercial Driver's License (CDL), with endorsement "N" is required within the first six months of employment. Other agencies may require that a Commercial Driver's License (CDL) with appropriate endorsements be attained within the first six months of employment.

NOTE: Shop Assistant - Transportation experience will substitute for the Equipment Shop Assistant experience on a year for year basis.

Revised minimum qualifications: 2-7-72

Revised, Highway Maintenance Class Study, code change (formerly 7246): 7-1-75

General revision: 7-78

Revised minimum qualifications, title change (formerly Equipment Mechanic 1, Highways): 2-9-79

Revised minimum qualifications: 10-13-89

Revised minimum qualifications: 12-13-91

Revised minimum qualifications: 4-10-92

Revised definition and minimum qualifications: 9-10-93

Revised minimum qualifications: 2-14-97

Revised typical work: 5-14-99

Revised title (formerly Equipment Mechanic 1 - Transportation), add class series intent, definition, minimum qualifications, general revision: 7-13-01