

MEETING DATE 11/21/05

AGENDA ITEM Consideration of Approval of the Classified Classification Specification for Mechanic ,

ATTACHMENTS

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Title MECHANIC**Definition**

Occupants of this classification are in the classified service. They perform skilled journey level work in the repair, overhaul, and maintenance of light and heavy motorized equipment. The incumbents of this classification are expected to independently perform the full range of overall maintenance service and repair activities on the City's entire complement of motorized equipment.

Supervision Received and Exercised

The positions assigned to this classification report to a Equipment Maintenance Supervisor. Responsibilities may include supervision of Mechanic Assistants and Equipment Service Workers.

Essential Job Duties

The following tasks are essential for this position. Incumbents in this classification may not perform all of these tasks or may perform similar related tasks not listed here.

- 1 Conducts preventive maintenance inspections and repairs on motorized and non motorized vehicles and equipment using analyzers, pressure gauges, chassis charts, and factory manuals for all types of diesel and gasoline powered vehicles.
- 2 Troubleshoots and repairs all electrical problems including complete diagnosis of electronic and computer controlled systems. Reads and understands vehicle maintenance manuals and appropriate electrical schematics including computer flow charts and graphs.
- 3 Troubleshoots, monitors and repairs all types of hydraulic systems. Implements hydraulic flow charts, overhaul and repair procedures for hydrostatic drive systems including cylinders, pumps, and all related components.
- 4 Troubleshoots, inspects and repairs drive lines including manual transmission, clutches, front wheel drive components, C V joints and differentials, services and repairs automatic transmission, transmission axles, and transverse types of transmissions.
- 5 Troubleshoots, inspects and repairs steering systems including power steering units, gear boxes, under suspension components, rack and pinion alignments, and McPherson types of suspension.
- 6 Inspects, troubleshoots and diagnoses all types of diesel and gas and ~~alternative fuels, such as compressed natural gas (CNG) engines~~ performs major and minor repairs, overhauls, and adjustments including repairing and overhauling automatic and manual transmissions and clutches.
- 7 Troubleshoots, inspects and repairs all types of fuel systems including fuel injection, injection pumps, and all related electronic and non electronic components.
- 8 Performs all aspects of cooling system repairs including but not limited to proper system diagnoses, water pumps, radiator, thermostat, and all related cooling system components including engine related problems.
- 9 Troubleshoots, inspects and repairs ignition systems including computerized electronic, diesel, and all other related ignition systems.
- 10 Troubleshoots, inspects and repairs brake systems including hydraulic vacuum and pneumatic using the proper diagnostic tools and equipment.
- 11 Troubleshoots and repairs charging and starting systems including proper diagnosis of voltage and amperage readings and battery conditions.
- 12 Troubleshoots and repairs air conditioning and heater systems including diagnosis of compressors, thermostats, and climate control, vacuum control, and computer ventilation control systems.
- 13 Practices safe work habits, promotes motivation and morale among subordinates.

Marginal Job Duties

The following tasks are typically performed by individuals in this classification but are considered less than essential.

- 1 Performs machinist and fabrication work including welding.
- 2 Monitors daily time entry sheets, the use of all maintenance manuals, and computer based maintenance repair work orders.

Minimum Knowledge, Skill and Ability

Knowledge of

Standard methods equipment techniques and tools of the mechanical trade
Gasoline diesel and [REDACTED]
Welding fabrication and modification technology
Techniques and testing equipment utilized to diagnose malfunctions and defects in equipment
Repair and equipment maintenance techniques of light medium and heavy power driven equipment
Proper cleaning and storing methods of hazardous materials including engine fluids and anti freeze
California Highway Patrol inspection procedures

Skill and Ability to

Complete work assignments promptly and accurately by work order or via verbal instructions
Perform heavy and physically demanding work for lengthy and continuous period of time
Work nights weekends and holidays
Diagnose service and repair mechanical malfunctions in a wide variety of equipment and vehicles including major overhaul of internal combustion engines and hydraulic systems
Properly and safely use shop tools
Read and interpret manufacturers lubrication service and repair manuals
Make estimates of repair costs
Maintain simple work records
Adapt a variety of shop tools and repair parts to specific or maintenance problems
Diagnose and repair mechanical defects

License and Certificate

Possession of a valid California Class B driver s license with a passenger transportation endorsement (A class B permit will be accepted for the first 90 days of appointment)

Other Requirements

At time of hire must provide own tools of type and quantity necessary for journey level vehicle and equipment maintenance and repair

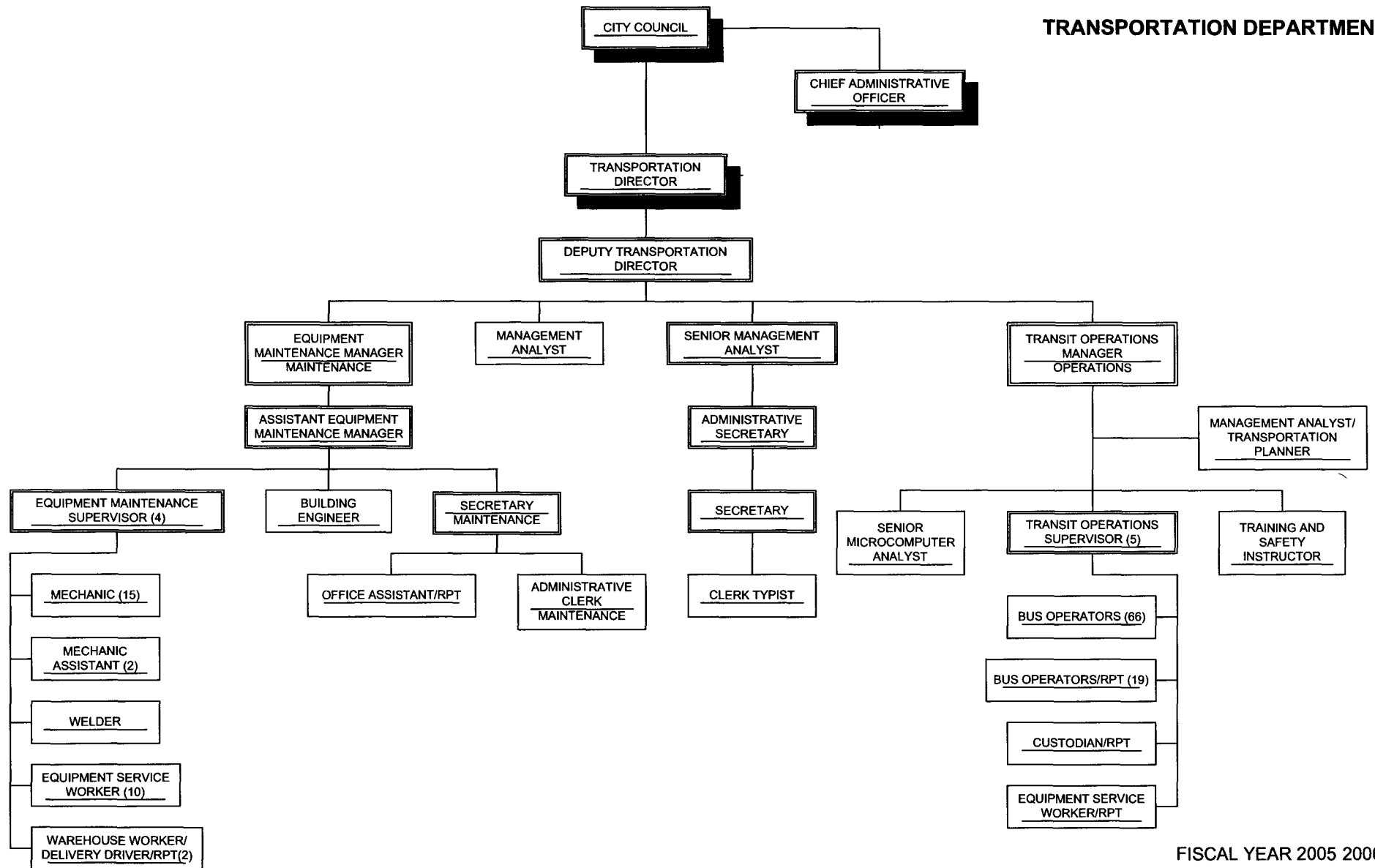
Training and Experience

Any combination equivalent to training and experience that could likely provide the required knowledge skills and abilities would be qualifying A typical way to obtain the knowledge skills and abilities would be completion of high school and three years of journey level experience repairing and maintaining a variety of light medium and heavy motorized equipment
[REDACTED]

Physical Requirements and Working Conditions

Require vision (which may be corrected) to read small print
Require the mobility to stand stoop reach and bend Require mobility of arms to reach and dexterity of hands to grasp and manipulate small objects
Require the ability to stand for long periods
Require the ability to walk long distances
Perform work which involves the frequent lifting pushing and/or pulling of objects which may approximate 50 pounds and may occasionally weigh up to 100 pounds
May be required to work with harsh and toxic substances
May be required to wear protective apparel including goggles face protectors aprons shoes and oxygen breathing apparatus
May be required to work around loud noise
May be required to work around moving mechanical parts May be required to work around electrical current
Is subject to office and outside environmental conditions
May be required to work evenings or weekends

TRANSPORTATION DEPARTMENT



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