

AUTOMOTIVE ENGINEER, 7560

Summary of Duties : Performs responsible engineering work in preparing and supervising the preparation of designs, plans, specifications, testing procedures, estimates, reports and the budget in connection with the procurement, operation, performance, servicing, maintenance, and modification of automotive, construction and motorized equipment; administers contracts for such work; and does related work.

Distinguishing Features : The work of an employee of this class includes handling major problems in connection with the design, procurement, inspection, operation, and maintenance of a wide variety of automotive equipment. The work involves the exercise of independent judgment in applying engineering theory to technical problems. Assignments are normally received as outlines of general objectives. An Automotive Engineer determines the detailed procedures to be followed, completes the difficult phases personally, and delegates the other work to subordinates. The work of an employee of this class differs from that of other engineer classes in that the former involves specialization in the automotive field.

Examples of Duties : Prepares and supervises the preparation of designs for motor vehicle body modifications, construction, and special automotive equipment such as insulator washer trucks, cable pulling machines, and mobile winches and hoists; conducts and supervises engineering research and tests of motor fuels and lubricants; prepares reports of findings and cooperates with engineering societies in collecting data relating to automotive equipment, its use and performance; applies equipment data design of new programs and enhances existing programs; prepares or supervises the preparation of engineering specifications for purchase of motor vehicles, construction equipment, accessories, replacement parts, fuel, and lubricants; provides engineering advisory service in the procurement, inspection, operation, maintenance, and repair of motor vehicles and construction equipment in shop layout; analyzes bids and recommends contract award; gives technical instructions in testing and inspecting items purchased for conformance to specifications; recommends improvements in automotive and construction equipment; fulfills supervisory affirmative action responsibilities as set forth in the City's Affirmative Action Plan; and may occasionally be assigned to other duties for training purposes or to meet technological changes or emergencies.

Qualifications : A good knowledge of the principles and practices of automotive engineering as applied to the design, procurement, testing, operation, and maintenance of automotive, and construction equipment; a good knowledge of the sources of engineering information; a good knowledge of shops and service facility planning and operation; a good knowledge of applicable provisions of Federal, State and local laws

and regulations relating to motor vehicle and construction equipment design and safety; a good knowledge of supervisory principles and practices; a good knowledge of safety principles and practices; a working knowledge of laws and regulations related to equal employment opportunity and affirmative action; a general knowledge of City personnel rules, policies and procedures; a general knowledge of memoranda of understanding as they apply to subordinate personnel; the ability to apply automotive engineering principles to the solution of specific problems; the ability to supervise the work of subordinate engineering personnel; the ability to prepare clear and comprehensive reports; and the ability to deal tactfully and effectively with employees and representatives of other organizations.

Graduation from a school of engineering in a recognized four-year college or university with a major in automotive or mechanical engineering and four years of professional experience in automotive engineering, including two years at the Engineering Associate level.

License : A valid California driver's license may be required.

Registration Required : Registration as a Professional Engineer with the California State Board of Registration for Professional Engineers is required.

Physical Requirements : Strength to perform average lifting of less than five pounds and occasionally over fifteen pounds; good speaking and hearing ability; and good eyesight. Persons with handicaps may be capable of performing the duties of some of the positions in this class. Such determination must be made by the medical examiner on an individual basis.

As provided in Civil Service Commission Rule 2.5 and Section 4.55 of the Administrative Code, this specification is descriptive, explanatory and not restrictive. It is not intended to declare what the duties and responsibilities of any position shall be.