

CLASS SPECIFICATION FOR  
**Mechanical Engineer**

**GENERAL STATEMENT OF DUTIES:** Performs professional mechanical engineering duties in the office and in the field; does related work as required.

**DISTINGUISHING FEATURES OF THE CLASS:** This work involves the application of professional mechanical engineering knowledge and skills to the design, inspection, and construction of various projects. The incumbent examines work plans, specifications and engineering calculations to ensure compliance with applicable codes, and/or designs, inspects and supervises construction of various mechanical engineering projects. May exercise technical supervision over and provide professional guidance to technicians, inspectors, and lower-level engineers. General supervision is received and difficult problems are reviewed by and discussed with an assistant agency head.

**EXAMPLES OF WORK** (illustrative only):

- Examines plans and checks designs of new buildings and other structures to determine whether or not such plans and designs are in conformity with the provisions of the mechanical and plumbing codes, energy conservation, fire protection and good engineering practices;
- Inspects construction of mechanical projects, keeping notes on the job's progress and preparing reports as required;
- May verify the estimated cost of jobs, including labor, materials, and equipment, to determine whether or not fee for permit is accurate before issuance of permit;
- Makes field surveys and costs out various mechanical and fire protection projects;
- Advises architects, engineers, contractors and inspectors of revisions in plans, alterations or repairs essential for compliance with mechanical and plumbing code regulations;
- Plans, designs, draws, and examines specifications for mechanical and fire protection installations or improvements;
- Keeps official project records and reports;
- Performs related work as assigned.

**REQUIRED KNOWLEDGE, SKILLS AND ABILITIES:** Considerable knowledge of the principles and practices of mechanical engineering as apply to construction and alterations of all types of structures; ability to examine and design, if necessary, mechanical, fire protection and plumbing systems; ability to communicate technical engineering principles orally or in report form; good professional engineering judgment; ability to supervise effectively; ability to maintain good working relationships with others.

**MINIMUM EDUCATION AND EXPERIENCE:** Possession of a degree in mechanical or civil engineering and one (1) year of professional mechanical engineering experience; OR, any equivalent combination of experience and training which provides the required knowledge, skills and abilities.

**ADDITIONAL REQUIREMENTS:** Positions assigned to Building Inspections require certification in accordance with the certification program of the State Department of Housing and Community Development within three (3) years of date of employment; and the employee shall participate in additional/ongoing training as mandated by the Department of Housing and Community Development.