

**CITY OF SALEM
FIRE PROTECTION ANALYST**

**00465
30465**

NATURE OF WORK

This is professional fire protection work related to the design, analysis, and modification of fire protection systems.

Work involves the responsibility for conducting technical studies and preparing recommendations dealing with a wide variety of fire protection problems, design review of fire suppression and alarm systems and development of a community fire protection plan. Work assignments require complex technical analysis relating to individual Fire protection system design, commercial building design, allocation of Fire Department resources, and review and development of fire and building codes. General supervision is received in the form of goals and objectives with the periodic review by an administrative supervisor.

ILLUSTRATIVE EXAMPLES OF WORK

(Any single position of a class will not usually involve all of the duties listed any many positions will involve duties which are not listed.)

Evaluates the City's Fire and Building Codes for adherence to accepted fire protection engineering standards; studies proposals and recommends modifications to the Codes; reviews technical literature and proposes new fire protection procedures.

Advises City staff, architects, engineers, developers, building owners, and the general public in the interpretation or application of fire safety codes and regulations.

Conducts special studies regarding fire hazards, fire response systems, joint fire protection agreements, consolidations, variable manning, alternative fire protection methods, fire cost reduction, incentive plan for private installation of fire protection devices and other areas relating to the provision of fire protection services; makes recommendations for improving City fire protection services.

Conducts design review of fire suppression and alarm systems, including field testing. Provides technical advise to other departmental staff for approval of various industrial processes and installations. Checks calculations of fire spread rates under various operating conditions as building plans are submitted.

Studies of industrial, mercantile, and public buildings, homes and other property before and after construction, considering factors such as fire resistance of construction, usage or contents of buildings, water supplies and water delivery, and egress facilities.

WORK QUALIFICATIONS

Considerable experience in fire protection engineering or related engineering discipline; graduation from a four-year college or university with major course work in fire protection or related engineering discipline; or any equivalent combination of experience and training which provides the following knowledges, skills, and abilities:

Considerable knowledge of the principles and practices of fire protection engineering.

Considerable knowledge of design, construction, and maintenance of fire protection alarm systems.

Considerable knowledge of fire protection in building design and construction.

Knowledge of fire insurance rating organizations, municipal grading systems, rate setting methods, and techniques.

Considerable ability to apply risk analysis, cost analysis, and engineering techniques to evaluate a wide variety of fire protection problems.

Ability to readily acquire knowledge of Fire Department operations and equipment and the principles of fire protection and prevention.

Ability to utilize computer applications for fire protection engineering.

Skill in the evaluation of municipal fire protection services to determine the optimum allocation of resources.

Ability to work independently and establish own methods of accomplishing assigned projects.

Ability to communicate facts and present recommendations in a clear, concise, logical manner, both orally and in writing.

Ability to establish and maintain effective working relationships with departments, staff, outside agencies, public officials, media, and the general public.

Registration as a professional engineer by the State of Oregon or ability to obtain a temporary permit to practice engineering issued by the Board of Engineering Examiners is desirable.

Possession of a valid Oregon driver's license or class 4 driver's license and ability to meet City driving standards.

Personnel Director