

CITY OF GLENDALE

TITLE:	Fire Protection Engineer	CLASS CODE:	684
REPORTS TO:	Fire Marshal	GRADE:	31
DEPARTMENT:	Fire	FLSA:	E

JOB SPECIFICATION DATE: April 27, 2009 mc

JOB SUMMARY

Performs complex professional plans review and engineering analysis to ensure that buildings and structures are in compliance with applicable building, fire and life safety codes. Works in close collaboration with federal, state and local government agencies to ensure that codes and regulations are applied in a uniform manner. Interprets and enforces fire protection requirements and makes recommendations as assigned.

ESSENTIAL FUNCTIONS

1. Reviews, evaluates and approves life safety and performance engineered submittals of fire protection systems to include fire suppression, detection and alarm systems. Evaluates and determines acceptability of smoke control systems using fire modeling technology for compliance with currently adopted fire and life safety codes, regulations and standards.
2. Coordinates with other city departments to develop and implement fire protection engineering procedural methods and practices. Serves as a technical advisor to architects, engineers, developers, contractors and building owners in interpreting and enforcing fire protection requirements; prepares recommendations as assigned.
3. Evaluates current construction methods and materials, alternative methods, and prescriptive and performance based design requests; prepares recommendations as assigned.
4. Evaluates information regarding new technological developments impacting the fire service.
5. Assists and participates in training department personnel in all aspects of fire protection and inspections.
6. Provides technical support to fire investigators in flammability, fire spread and fire safety equipment performance issues utilizing fire modeling technology.
7. Evaluates various complex existing buildings and specialized fire protection systems to ensure compliance with various fire codes and regulations.
8. Represents the department as a technical association committee member, identifies and presents the interests and concerns of the city regarding fire protection and life safety issues; drafts pertinent codes or regulations based on national standards.
9. Attends and participates in conferences, fire protection technical seminars and professional group meetings. Prepares and presents public information and educational presentations on fire protection engineering and fire code related issues.
10. Participates in division budget preparation; forecasts expenses for staffing, equipment, materials and supplies in assigned area; administers and monitors expenditures and implements adjustments.
11. Represents the Fire department as an expert witness in cases of criminal or civil litigation.
12. Supervises clerical or professional staff as assigned.

SECONDARY FUNCTIONS

13. Perform related duties and responsibilities as required.

KNOWLEDGE, SKILLS AND ABILITIES

Knowledge of:

Theory methods, practices and application of fundamental and advanced principles of fire protection engineering, plan review process and inter-relationships of planning, land development, and building divisions

Basic methods, principles and practices of firefighting, building construction, design and materials related to fire protection

Principles and practices of installation of fire extinguishing and related building, fire and life safety systems

Principles, practices and procedures of fire protection code development and strategies for code enforcement related to fire protection and life safety systems

Pertinent federal, state and local laws, codes and regulations pertaining to fire protection and hazardous materials

National Fire Protection Association (NFPA) standards and other pertinent nationally recognized standards

Principles of supervision, training and performance evaluation

Ability to:

Analyze problems, identify alternative solutions, project consequences of proposed actions, recommend best options and implement approved solutions in support of goals

Use a desktop computer; word processing, databases and spreadsheet applications

Verbally communicate clearly and concisely with customers, clients and the public in face-to-face one-on-one settings, group settings, and on the telephone

Produce written documents with clearly organized thought using proper English sentence construction, punctuation, spelling, and grammar

Determine appropriate levels of fire protection and life safety

Perform fire modeling to assist with fire investigations

Work effectively without direct supervision and use initiative and independent judgment within established guidelines

Make inferences from written materials such as fire codes and ordinance

Interpret, apply, explain, make decisions and enforce applicable laws, codes, regulations, policies and procedures

Establish and maintain effective working relationships

WORKING CONDITIONS

Work in office and field environments including construction sites and unfinished or damaged structures; may be exposed to or required to work in a wide variety of environmental conditions.

MINIMUM QUALIFICATIONS

A bachelor's degree in Engineering or related field from an accredited college or university and three years of experience in fire protection engineering work. Must possess and maintain a Fire Protection Engineer license.

Any equivalent combination of training, experience, and education that provides the required knowledge, skills, and abilities, is qualifying.

SPECIAL REQUIREMENTS

Valid Arizona Driver's license

Must possess and maintain an ICC certification, or equivalent, for the City's currently adopted fire code within one year from date of hire

Must possess or obtain a Fire Protection Engineer license from the State of Arizona within six months of date of hire

Must be registered with the Arizona Board of Technical Registration within six months of date of hire