



## SENIOR SAFETY ENGINEER

JC: 000240

PG: 7

FLSA: Exempt

BU: 92 (NR)

Created: June 2019

*Class specifications are intended to present a descriptive list of the range of duties performed by employees in the class. Specifications are **not** intended to reflect all duties performed within the job.*

### **DEFINITION**

Under supervision, reviews and updates all projects on fire/life safety and relevant code compliance and conducts safety and security activities for capital projects requiring safety certification and conducting Districtwide station inspections; performs related duties as assigned.

### **CLASS CHARACTERISTICS**

This professional advanced journey level classification within the Safety Engineer series is performs the more complex and technical work and is fully aware of the operating procedures and policies of the work unit. This classification is distinguished from the Principal Safety Engineer in that the latter possesses a highly technical and functional expertise within the area of assignment.

### **REPORTS TO:**

Manager of Engineering Safety or designee.

### **EXAMPLES OF DUTIES** – *Duties may include, but are not limited to, the following:*

1. Coordinates safety and security certification activities for capital projects; interprets building codes and NFPA standards.
2. Establishes schedules and methods for providing contract administration services; inspects and verifies quantities of materials, and monitors adherence to specifications; identifies resources needed.
3. Monitors progress of engineering design or construction projects; makes recommendations on resources to be allocated.
4. Assists in the development of policies and procedures; monitors work activities to ensure compliance with established policies and procedures; makes recommendations for changes and improvements to existing standards and procedures.
5. Recommends and assists in the implementation of goals and objectives; implements approved policies and procedures.

6. Recommends approval of and submits contractor's progress payment applications; maintains documentation of contract deficiencies.
7. Prepares engineering designs, specifications, costs and quantity estimates for engineering projects; reviews the adequacy and accuracy of computations.
8. Provides review and comments to all projects including design and construction phases to make sure current fire and life safety codes and standards are met. Ensures projects follow the BART Facility Standards (BFS).
9. Reviews site specific work plans and attends track allocation meetings.
10. Participates in the preparation and administration of the program budget; submits budget recommendations; monitors expenditures.
11. Prepares analytical and statistical reports on operations and activities.
13. Attends and participates in professional group meetings; stays abreast of new trends and innovations in the field of engineering design and construction.

## **QUALIFICATIONS**

### **Knowledge of:**

- Principles and practices of engineering discipline in assigned area
- Operations, services and activities of an engineering design and construction program
- Principles and practices of project scheduling and oversight
- Principles, practices, methods and techniques of contract management
- Methods and techniques of field measuring and testing
- Principles and practices of engineering cost estimating
- Terminology, methods, practices and techniques used in technical engineering report preparation
- Advanced mathematical principles
- Fire life safety codes
- Construction contract administration and management
- Principles of lead supervision and training
- Current office procedures, methods, and equipment including computers
- Specialized computer programs or systems utilized in construction engineering project design including CADD
- Materials and equipment used in construction engineering projects
- Related building codes, regulations and provisions
- Related Federal, State and local laws, codes and regulations

### **Skill/Ability in:**

- Developing, reviewing, and modifying complex engineering plans, designs, and specifications
- Interpreting and explaining District policies and procedures
- Preparing clear and concise reports
- Overseeing and administering contracts
- Overseeing assigned engineering construction projects

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- Analyzing engineering problems, evaluating alternatives, and recommending solutions
- Interpreting and preparing revisions to engineering plans, drawings, and specifications
- Conducting and overseeing field inspections, measurements, and testing
- Leading, organizing and reviewing the work of lower level staff
- Communicating clearly and concisely, both orally and in writing
- Establishing and maintaining effective working relationships with those contacted in the course of the work

### **MINIMUM QUALIFICATIONS**

#### **Education:**

Bachelor's degree in Engineering or a related field from an accredited college or university.

#### **Experience:**

The equivalent of three (3) years of professional verifiable experience in safety operations, safety certification processes or related experience.

#### **Substitution:**

Additional professional experience as outlined above may be substituted for the education on a year-for-year basis. A college degree is preferred.

### **WORKING CONDITIONS**

#### **Environmental Conditions:**

Office environment; exposure to computer screens; field environment; travel from site to site; construction site environment; exposure to noise, dust, grease, smoke, fumes, gases, heat, cold, and inclement weather conditions.

#### **Physical Conditions:**

May require maintaining physical condition necessary for walking, standing or sitting for prolonged periods of time.

**BART EEO-1 Job Group:** 3000 – Engineers  
**Census Code:** 1530 – Miscellaneous Engineers  
**Safety Sensitive:** No