



ASSISTANT CHIEF ENGINEERING OFFICER

JC: 000086

PB: 12

FLSA: Exempt

BU: 95 (NR)

Created: August 2013

Revised: 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 general direction, plans, directs, and manage the activities and operations of the Engineering, Construction Services, and Operations Liaisons organizations in support of District initiatives; performs related duties as assigned.

CLASS CHARACTERISTICS

This full managerial level classification is responsible for managing, through subordinate managers, all maintenance and engineering activities related to the successful deployment and life cycle management of assigned activities and infrastructure assets. The classification will utilize best practices in engineering, maintenance, project management and asset management activities to ensure assigned assets efficiently support revenue service and will use in-house staff and contractors to execute complex technical engineering and rehabilitation projects, and safety and reliability centric preventative maintenance and repair work. The classification is accountable for accomplishing departmental goals and objectives and for furthering District goals and objectives within general policy guidelines. This classification is distinguished from the Chief Maintenance and Engineering Officer in that the latter has overall responsibility for directing all District fixed asset engineering and maintenance functions.

REPORTS TO:

Chief Maintenance and Engineering Officer or designee.

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

1. Provides strategic planning and leadership of engineering, construction management, program management and serves as cross-department liaison personnel to provide safe, reliable asset management and operations.
2. Assumes full management responsibility for all assigned infrastructure assets, which may include single or multiple categories of asset types.
3. Creates organizational constructs to enable new measurement systems and embrace innovative methodologies for root cause analysis for engineers, managers, and staff.

4. Designs, tests, implements and executes measuring systems for advance troubleshooting and analyses.
5. Manages and participates in the development and implementation of departmental goals, objectives, policies and priorities for each assigned engineering and maintenance division.
6. Establishes, within District policy, appropriate service and staffing levels; monitors and evaluates the efficiency and effectiveness of assigned area's service delivery methods and procedures, provides recommendations for improvement, and allocates resources accordingly.
7. Plans, directs and coordinates, through subordinate level staff, the assigned group's work plan; assigns projects and programmatic areas of responsibility; establishes clear responsibility for personnel safety programs and processes, reviews and evaluates work methods and procedures; assess and monitors workload: identifies opportunities for improvement; meets with key staff to identify and resolve problems: and directs and implements changes.
8. Participates in the development and optimization of business management systems; analyzes and utilizes data to make management decisions and measure organizational performance; enforces compliance with business processes; provides resources, data and expertise that contribute to the formulation and execution of District asset management processes and plans.
9. Responsible for the execution of, and participation in, the development of proactive and predictive maintenance programs; define and meet equipment safety standards, analyze and monitor performance and quality; manage through data acquisition and analysis; employ reliability centered maintenance methodology; effectively plan and schedule the execution of interdisciplinary work; and optimize materials management in the group.
10. Oversees the execution of engineering projects and major contract design and rehabilitation projects; ensures use of design best practices to define and meet safety requirements and customer needs; utilizes project management best practices to optimize project delivery; reviews performance and implements changes as necessary; and oversees and directs the work of in- house, consultant and contracted staff.
11. Attends and participates in professional group meetings; stays abreast of new trends and innovations in the field of systems, and maintains a very high level of technical expertise; provide strategic direction in the research, analysis, development and implementation of new technology; and manage and execute the resolution of complex technical problems.
12. Oversees and participates in the development and administration of the departmental budget; provides annual and long-range forecasts of funds needed for staffing, equipment, materials and supplies; approves expenditures and implements budgetary adjustments as appropriate and necessary.
13. In coordination of designated personnel manages and supports labor relations issues including Department and District labor-management relations, investigations, grievances and arbitrations, contracting notifications, and negotiations.

14. Selects, trains, motivates and evaluates assigned personnel; provides or coordinates staff training; works with employees to correct deficiencies; implements discipline and termination procedures.
15. Monitors developments and legislation related to assigned areas of responsibility; evaluates impact upon District operations; recommends and implements policy and procedural improvements.
16. Represents the District to representatives of manufacturers, vendors, governmental agencies and professional and business organizations; coordinates assigned activities with those of other departments and outside agencies and organizations.
17. Provides responsible staff assistance to the Chief Engineer; participates on various District management committees; prepares and presents staff reports and other necessary correspondence.

QUALIFICATIONS

Knowledge of:

- Operations, design principles, management, and activities of comprehensive multi-discipline maintenance and engineering programs
- Innovation, efficiency and change management methodologies
- Impact of service delays on train system
- Complex analytics, data science and risk management
- Principles of supervision, training and performance evaluation
- Operations, principles, and activities of comprehensive maintenance and engineering programs
- Principles and practices of comprehensive asset management programs
- Principles and practices of design for assigned infrastructure asset categories
- Principles and practices of modern maintenance management
- Principles and practices of project and contract management
- Principles and practices of program development and administration
- Principles and practices of policy development and administration
- Principles and practices of budget preparation and administration
- Principles of supervision, training and performance evaluation
- Related Federal, State and local laws, policies, codes and regulations

Skill/Ability in:

- Managing comprehensive maintenance and engineering asset management programs
- Managing engineering design programs
- Managing maintenance programs delivering capital projects
- Utilization and analysis of data as a basis for decision making
- Developing and administering departmental goals, objectives and procedures
- Analyzing and assessing policies and operational needs and making appropriate adjustments
- Identifying and responding to sensitive community and organizational issues, concerns and needs
- Project Management
- Delegating authority and responsibility
- Selecting, supervising, training and evaluating staff
- Preparing clear and concise administrative and financial reports

Assistant Chief Engineering Officer

Page 4

- Preparing and administering large and complex budgets
- Interpreting and applying applicable Federal, State and local policies, laws and regulations
- Communicating clearly and concisely, both orally and in writing
- Establishing and maintaining effective working relationships with those contacted in the course of work
- Responding quickly to prevent service delays
- Adapting to changing regulatory and technical factors that impact the organization and its assets
- Analyzing and assessing program, policies and operational need

MINIMUM QUALIFICATIONS

Education:

Possession of a Bachelor's Degree in Engineering or a related field from an accredited college or university.

Experience:

Seven (7) years (full-time) professional verifiable experience in engineering and engineering management experience 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.

License or Certificate:

Registration as a professional engineer in the State of California desirable.

WORKING CONDITIONS

Environmental Conditions:

Office environment; exposure to computer screens; field environment; rail right of way environments; construction site environment; exposure to heat, cold, moving vehicle, electrical energy 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: 0500 – Executives/Managers
Census Code: 0160 – Transportation Managers
Safety Sensitive: No