PRINCIPAL INFORMATION TECHNOLOGY NETWORK ENGINEER

Group-Section: Information Technology	**FLSA Status:** Exempt **Bargaining Unit:** MAPA	**Salary Grade:** 58 **Job #:** YC64

JOB SUMMARY

Serves as the resident authority in information technology network architecture, planning, and design. Act as a technical lead and expert in the design, development, implementation and daily support of Metropolitan's network infrastructure and security. Reviews and recommends approval of proposed network solutions and designs from other staff and consultants. Responsible for providing guidance and oversight to network engineers, network technicians, working with IT and Business on numerous projects building networks and solving complex problems. Acts as a technical lead for multiple network communication disciplines (voice, data, video, security, microwave, and 2 way radio) or a variety of specialized fields. Project assignment responsibilities include directing project teams, developing schedules, project plans, proposals, budgets and status reports. This role may act as a primary network engineer, architect, or network security specialist for Enterprise Network Systems.

OVERSIGHT

Oversight Received: Receives direction from the Team, Unit, Section or Group Manager.

Oversight Given: Acts as a lead. Coordinates and reviews work assignments of employees performing the same general work as the lead on a day-to-day basis. Responsibilities may involve solving problems and providing instructions on work procedures.

May exercise technical and/or functional direction over assigned staff.

JOB DUTIES

1. Serves as a resident authority for the design, development, implementation, and daily support for Metropolitan's network infrastructure architecture; coordinates activities with other IT teams; develops long-term project goals for network infrastructure; and assigns tasks and monitors execution of work.

2. Interprets business needs for network architecture; identifies critical issues, recommends solutions and resolves complex problems; develops new processes and procedures to meet new requirements or changes.

3. Evaluates existing and emerging network technologies; introduces new and enhanced network solutions where appropriate to ensure efficient operations; analyzes network information to stay abreast of technological advances and their potential applicability to metropolitan's needs; and provides training and guidance in network technologies to help develop other staff members and ensure that their skill levels meet current and future business needs.

4. Plans, directs, and manages the assessment of network requirements, feasibility, technical direction, business case analysis, cost projections, benefit quantification, risk analysis, schedule, and scope for Information Technology projects and major initiatives.

5. Acts as project manager; plans, coordinates, and conducts projects within area of responsibility, including monitoring scope, quality, budget and schedule.

6. Develops reports and proposals; and makes presentation to management.

7. Provides support for outages, threats, maintenance, and upgrades.

8. Leads, designs, develops, plans, pilots, implements, and supports network infrastructure communications technologies.

9. Leads, designs, develops, plans, pilots, implements, and supports VOIP server systems, IP network, and Quality of Service (QOS).

10. Leads, designs, develops, plans, pilots, implements, and supports network security systems.

11. Performs other related Information Technology Network Engineer job duties as required.

EMPLOYMENT STANDARDS

MINIMUM QUALIFICATIONS
Education and Experience: Bachelor's degree from an accredited college or university in a related field and 8 years of relevant experience of which 2 years must have been at the Senior IT Network Engineer level.

Required Knowledge of: Principles, practices, and procedures of Information Technology; network systems and applications; principles, practices, and procedures of network engineering, design, architecture, research and development, capacity planning, and quality of service; operational characteristics of network systems; word processing and spreadsheets; project management; and current office technology and equipment.

Required Skills and Abilities to: Lead and design network systems; provide support for network systems; tracks, monitors and troubleshoots network hardware and software; leads and performs network research and development; performs network configuration, optimization, installation, upgrades, and testing; analyze requests and provide customer assistance for solutions; maintain confidentiality for proprietary and personal information; use independent judgment and exercise discretion; problem solve; prioritize and multi-task; communicate clearly and concisely, both verbally and in writing; establish and maintain effective working relationships with those contacted in the course of work; work independently and in a team environment; lead and train; and operate current office equipment including computers and supporting applications.

CERTIFICATIONS, LICENSES, AND REGISTRATION REQUIREMENTS
Employees in this position may be required to obtain and maintain the following certifications, licensing and registrations:

Certificates
CCNP Cisco Certified Network Professional or Equivalent Desired

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Revised:
Supersedes:

Licenses
Valid California Class C Driver License that allows you to drive in the course of your employment

Registrations
None

PHYSICAL DEMANDS, WORK ENVIRONMENT, AND VISION REQUIREMENTS
The physical demands and work environment characteristics described here are representative of those that must be met or may be encountered by an employee to successfully perform the job duties of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the job duties.

Physical Demands: The work is sedentary. Typically, the employee may sit comfortably to do the work. However, there may be some walking; standing; bending; carrying of light items such as paper, books, or small parts; driving an automobile, etc. No special physical demands are required to perform the work.

Work Environment: The work environment involves everyday risks or discomforts that require normal safety precautions typical of such places as offices, meeting and training rooms, libraries, and residences or commercial vehicles, e.g., use of safe work practices with office equipment, avoidance of trips and falls, observance of fire regulations and traffic signals, etc. The work area is adequately lighted, heated, and ventilated.

Vision Requirements: No special vision requirements.

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