

## Class Title: Network Engineer IV

### **BRIEF DESCRIPTION OF THE CLASSIFICATION:**

Recommends strategic direction for local and wide area networks and heterogeneous platforms. Supervises city network engineers and sets direction, priorities and goals for telecommunications projects and initiatives. Assists in the preparation of telecommunications budget. Prepares and evaluates contracts and proposals for data communication initiatives. Provides senior-level support on the advanced technical work that incorporates the design, installation and maintenance of local and wide area networks and integration of heterogeneous platforms. Responsible for network integrity and security.

### **ESSENTIAL FUNCTIONS:**

*This information is intended to be descriptive of the key responsibilities of the classification. The following examples do not identify all duties performed by any single incumbent. Specific requirements of individual positions are described in the Job Description.*

Physical Strength Code		ESSENTIAL FUNCTIONS
1	S	Recommends strategic direction for telecommunication and data networks by analyzing and researching new trends and initiatives and writing and recommending the standards and procedures for network engineers to follow for aspects of their design, evaluation, installations and support.
2	S	Supervises the network engineers by providing direction, setting priorities, producing project plans and coordinating resources to accomplish organizational and departmental goals and initiatives.
3	S	Prepares budget costs for the telecommunications budget by reviewing departmental and organizational initiatives and priorities as they relate to network infrastructure and telecommunication needs.
4	L	Provides senior-level support to other network engineers on complex network problems for mission critical hardware and software platforms.
5	S	Prepares and evaluates proposals and contracts for telecommunication services and infrastructure by providing technical direction for departmental and non-departmental technology contracts and proposals.
6	S	Manages, administers, plans and coordinates employees engaged in the maintenance and repair of various radio and electronics systems for Public Safety and Non-Public Safety agencies
7	L	Provides leadership and technical expertise in all aspects of wireless communications.

CSC Adopted: October 2001, CSC Revised: May 2011

**CLASS REQUIREMENTS:**

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Formal Education / Knowledge	Work requires broad knowledge in a general professional or technical field. Knowledge is normally acquired through four years of college resulting in a Bachelor's degree or equivalent.
Experience	Five years.
Certifications and Other Requirements	N/A
Reading	Work requires the ability to read technical manuals and specifications.
Math	Work requires the ability to perform general math calculations such as addition, subtraction, multiplication and division.
Writing	Work requires the ability to write various reports, policies, and standards.
Managerial	Managerial responsibilities include overseeing staff, developing strategic plans, and delegating work.
Budget Responsibility	Researches documents, compiles data for computer entry, and/or enters or oversees data entry and has responsibility for monitoring budget expenditures (typically non-discretionary expenditures) for a work unit of less than bureau size.
Supervisory / Organizational Control	Work requires supervising and monitoring performance for a regular group of employees in a work unit including providing input on hiring/disciplinary actions and work objectives/effectiveness, and realigning work as needed.
Complexity	Work is governed by broad instructions, objectives and policies. Work requires the exercise of considerable initiative and independent analytical and evaluative judgment.
Interpersonal / Human Relations Skills	Contacts others within the organization. These contacts may involve similar work units or departments within the City which may be involved in decision making or providing approval or decision making authority for purchases or projects. Works with individuals outside the City who may belong to professional or peer organizations. Working with various state and federal agencies may also be required. Vendors and suppliers may also be called upon for information on purchases, supplies or products. Meetings and discussions may be conducted with customers, vendors and sales representatives.

CSC Adopted: October 2001, CSC Revised: May 2011

**OVERALL PHYSICAL STRENGTH DEMANDS:**

Sedentary	Light	X	Medium	Heavy	Very Heavy
S = Sedentary Exerting up to 10 lbs. occasionally or negligible weights frequently; sitting most of the time	L = Light Exerting up to 20 lbs. occasionally, 10 lbs. frequently, or negligible amounts constantly OR requires walking or standing to a significant degree.		M = Medium Exerting 20-50 lbs. occasionally, 10-25 lbs. frequently, or up to 10 lbs. constantly.	H = Heavy Exerting 50-100 lbs. occasionally, 25-50 lbs. frequently, or up to 10-20 lbs. constantly.	VH = Very Heavy Exerting over 100 lbs. occasionally, 50-100 lbs. frequently, or up to 20-50 lbs. constantly.

**PHYSICAL DEMANDS:**

C = Continuously 2/3 or more of the time.	F = Frequently From 1/3 to 2/3 of the time.	O = Occasionally Up to 1/3 of the time.	R = Rarely Less than 1 hour per week.	N = Never Never occurs.
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*This is a description of the way the job is currently performed; it does not address the potential for accommodation.*

PHYSICAL DEMANDS	FREQUENCY CODE	DESCRIPTION
Standing	O	Installing equipment, consultations, field work
Sitting	C	Computer, desk work, meetings, driving
Walking	F	To/from equipment, field work, inter-office, to/from meetings
Lifting	O	Cables, computer equipment, boxes, tools
Carrying	O	Cables, computer equipment, boxes, tools
Pushing/Pulling	O	Office equipment
Reaching	O	Mounting equipment, checking wiring
Handling	F	Cables, computer equipment, boxes, tools
Fine Dexterity	C	Computer keyboard, telephone keypad, tools
Kneeling	O	Installing equipment
Crouching	O	Installing equipment, troubleshooting cable
Crawling	O	Pulling cable
Bending	F	Installing equipment
Twisting	F	Installing equipment
Climbing	O	Ladders
Balancing	O	Ladders
Vision	C	Computer, desk work, installing equipment
Hearing	C	Equipment alerts, staff, supervisor, vendors, telephone, meetings
Talking	F	Staff, supervisor, vendors, telephone, meetings
Foot Controls	O	Driving
Other (specify)	N	

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**MACHINES, TOOLS, EQUIPMENT, AND WORK AIDS:**

Hand tools, fiber test kits, lanmeter test equipment, router, switch, server, computer and Business suite software

**ENVIRONMENTAL FACTORS:**

D = Daily	W = Several Times Per Week	M = Several Times Per Month	S = Seasonally	N = Never
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HEALTH AND SAFETY		ENVIRONMENTAL FACTORS	
Mechanical Hazards	N	Dirt and Dust	M
Chemical Hazards	N	Extreme Temperatures	N
Electrical Hazards	S	Noise and Vibration	M
Fire Hazards	N	Fumes and Odors	N
Explosives	N	Wetness/Humidity	N
Communicable Diseases	N	Darkness or Poor Lighting	S
Physical Danger or Abuse	N		
Other (see 1 below)	N		

PRIMARY WORK LOCATION	
Office Environment	X
Warehouse	--
Shop	--
Vehicle	--
Outdoors	--
Other (see 2 below)	--

- (1)
- (2)

**PROTECTIVE EQUIPMENT REQUIRED:**

Hard hat, electrostatic straps/pads

**NON-PHYSICAL DEMANDS:**

C = Continuously 2/3 or more of the time.	F = Frequently From 1/3 to 2/3 of the time.	O = Occasionally Up to 1/3 of the time.	R = Rarely Less than 1 hour per week.	N = Never Never occurs.
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NON-PHYSICAL DEMANDS	
Time Pressures	F
Emergency Situations	O
Frequent Change of Tasks	F
Irregular Work Schedule/Overtime	O
Performing Multiple Tasks Simultaneously	F
Working Closely with Others as Part of a Team	F
Tedious or Exacting Work	F
Noisy/Distracting Environment	R
Other (see 3 below)	N

- (3)