

## Class Title: Network Engineer III

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

Designs, installs and maintains local and wide area networks and integrates heterogeneous platforms. Develops policies and telecommunications contracts. Assists in the preparation of telecommunication budgets. Prepares and evaluates contracts and proposals for telecommunication projects. Provides advanced technical support and consultation for a broad range of telecommunication technologies.

### **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	L	Performs various network functions by analyzing requests for network services, preparing cost estimates and requisitions to secure network services, recommending equipment and support levels and designing, coordinating, installing and maintaining network hardware and software.
2	L	Performs administrative and security-related duties for network operating systems, servers and back-up solutions by coordinating services to city agencies and between city and state agencies for essential network functions.
3	S	Updates telecommunication documentation by developing policies, procedures and technical manuals and maintaining network diagrams and the technical library.
4	S	Assists in the preparation of the telecommunications budget by coordinating and reviewing invoices, bills and other documents related to telecommunication service.
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.

**CSC Adopted: October 2001, CSC Revised: April 2015**

**CLASS REQUIREMENTS:**

<b>CLASS REQUIREMENTS</b>	
Formal Education / Knowledge	High School graduate or equivalent; specific vocational, administrative, or technical knowledge obtainable through six months to one year of advanced study or training past the high school level (through either city in-house training or an outside educational institution).
Experience	Three years of work experience in an Information Technology related field; or equivalent combination of education and experience.
Certifications and Other Requirements	N/A
Reading	Work requires the ability to read technical manuals, policies and procedures, and legal documents.
Math	Work requires the ability to perform general math calculations such as addition, subtraction, multiplication and division, algebra, and statistics.
Writing	Work requires the ability to write technical instructions, policies and procedures, employee evaluations, contracts, and various reports.
Managerial	Managerial responsibilities include determining departmental requirements, and coordinating the implementation of solutions.
Budget Responsibility	Researches for 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 requires analysis and judgment in accomplishing diversified duties. Work requires the exercise of independent thinking within the limits of policies, standards, and precedents.
Interpersonal / Human Relations Skills	Contacts others within the organization. These contacts may involve similar work units or departments within the City such as 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.

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**OVERALL PHYSICAL STRENGTH DEMANDS:**

Sedentary	X	Light	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	F	Copier, fax machine, filing, at console or working on network equipment
Sitting	F	Computer, desk work, network administration or programming, meetings, driving
Walking	F	Inter-office, to/from various servers to monitor activity
Lifting	O	Office supplies, files, folders, manuals, books, network equipment, hand tools
Carrying	O	Office supplies, files, folders, manuals, books, network equipment, hand tools
Pushing/Pulling	O	Boxes, cable
Reaching	O	To work on network equipment
Handling	F	Office supplies, files, folders, manuals, books, network equipment, hand tools
Fine Dexterity	O	Computer keyboard, writing
Kneeling	O	Working on network equipment, installations, running cable
Crouching	O	Working on network equipment, installations, running cable
Crawling	O	Working on network equipment, installations, running cable
Bending	O	Working on network equipment, installations, running cable
Twisting	O	Working on network equipment, installations, running cable
Climbing	O	Stairs, ladders
Balancing	O	On stairs or ladders
Vision	C	Computer, desk work, working on network equipment, reading, writing, driving
Hearing	C	Telephone, co-workers, supervisors, vendors, meetings
Talking	F	Telephone, co-workers, supervisors, vendors, meetings
Foot Controls	F	Driving
Other (specify)	N	

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

Computer, Network computers, LAN meters, tone generators, network design software, network monitoring software, NT 2000, NT 2.0, screwdrivers, wrenches, scissors, knives, flashlights, pliers, Standard Microsoft Windows and Office 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		PRIMARY WORK LOCATION	
Mechanical Hazards	N	Dirt and Dust	M	Office Environment	X
Chemical Hazards	N	Extreme Temperatures	N	Warehouse	--
Electrical Hazards	N	Noise and Vibration	M	Shop	--
Fire Hazards	N	Fumes and Odors	N	Vehicle	--
Explosives	N	Wetness/Humidity	N	Outdoors	--
Communicable Diseases	N	Darkness or Poor Lighting	M	Other (see 2 below)	--
Physical Danger or Abuse	N				
Other (see 1 below)	N				

- (1)
- (2)

**PROTECTIVE EQUIPMENT REQUIRED:**

Electrostatic straps, hard hat

**NON-PHYSICAL DEMANDS:**

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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)