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NASSAU COUNTY

**Title : NETWORK SPECIALIST III
(LOCAL AREA NETWORK)
(WIDE AREA NETWORK)
(LOCAL AND WIDE AREA
NETWORK)**

**SCHOOL DISTRICTS
CLASS SPECIFICATION**

**Code: 030230 BUY
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GENERAL STATEMENT OF DUTIES

Supervises the design, installation, configuration, and maintenance of local area networks (LANs), and/or wide area networks (WANs), and their operating systems; performs related duties as required.

COMPLEXITY OF DUTIES

Under general supervision, the duties require the use of considerable independent judgment in supervising subordinate employees and performing highly complex, technical LAN or WAN activities. This position differs from Network Specialist II in that there is a higher level of responsibility, and supervision is mandatory.

TYPICAL DUTIES

- * 1. Supervises the configuration, installation, maintenance, and upgrading of LANs and/or WANs, including repeater hubs, switches, and routers.
- * 2. Supervises the installation, support, and implementation of LAN and/or WAN operating systems, and DOS (Diskette Operating System), as well as system utilities.
- * 3. Supervises and participates in the design, development, and configuration of various LANs and/or WANs.
- 4. Supervises and participates in the administration of a complex internet/intranet system, and maintains access at all workstations.
- 5. Supervises the configuration, maintenance, and installation of integrated service digital network (ISDN) routers and monitors connectivity between buildings.
- 6. Designs training and support programs for Network Managers.
- 7. Supervises the training and instruction of LAN and/or WAN users.
- * 8. Evaluates current telecommunications hardware/software, and identifies areas for improvement.
- * 9. Recommends design changes to new and enhanced LANs and/or WANs.
- * 10. Implements Transmission Control/Internet Protocols (TC/IP) to establish communication between and across LANs and WANs.
- 11. Uses Simple Network Management Protocol (SNMP) to access management data to manage internet work performance, and find and resolve network problems.
- 12. Creates and maintains routing tables using Open System Internetworking (OSI) routing protocols.
- * 13. Performs site surveys to ascertain the necessary design, configurations, size,

and type of network required.

- * 14. Supervises or serves as lead on large or complex network installation.
- 15. Designs training and support programs for Network Managers and Coordinators, in order to improve their network efficiency.

***ESSENTIAL FUNCTIONS**

FULL PERFORMANCE KNOWLEDGES, SKILLS, AND ABILITIES

For Appointment to the Local and Wide Area Network Specialty:

1. Extensive knowledge of the principles, practices, and procedures of LAN/WAN design, installation, and configuration.
2. Extensive knowledge of the various software and hardware to maintain LAN and WAN operating systems, and to program and modify the systems software.
3. Thorough knowledge of LAN and WAN systems configuration.
4. Thorough knowledge of internet/intranet systems.
5. Ability to analyze and resolve LAN and WAN systems software and hardware problems.
6. Ability to install, monitor, and maintain LAN and WAN systems software and hardware products.

For Appointment to the Wide Area Network Specialty:

1. Extensive knowledge of the principles, practices, and procedures of WAN design, installation, and configuration.
2. Extensive knowledge of the software and hardware required to maintain WAN operating systems, and to program and modify WAN systems hardware.
3. Thorough knowledge of WAN systems configuration.
4. Thorough knowledge of internet systems.
5. Ability to analyze and resolve systems hardware problems.
6. Ability to install, monitor, and maintain WAN system hardware products.

For Appointment to the Local Area Network Specialty:

1. Extensive knowledge of the principles, practices, and procedures of LAN design, installation, and configuration.
2. Extensive knowledge of the software required to maintain LAN operating systems, and to program and modify LAN systems software.
3. Thorough knowledge of LAN systems configuration.
4. Thorough knowledge of internet systems.
5. Ability to analyze and resolve LAN systems software problems.
6. Ability to install, monitor, and maintain LAN systems software products.

For Appointment to All Specialties:

1. Ability to supervise the activities of subordinate technical specialists.
2. Ability to train and instruct end users.
3. Ability to express oneself effectively, both orally and in writing.
4. Ability to establish and maintain effective working relationships with associates and end users.

MINIMUM QUALIFICATIONS

Training and Experience

For Appointment to the Local and Wide Area Network Specialty:

Bachelor's degree from a regionally accredited or New York State registered college or university, including or supplemented by eighteen (18) credits in a computer field and

1. Six years of satisfactory, paid experience installing and maintaining both local and wide area networks, including two years supervising subordinates engaged in this kind of work;

or

2. Six years of satisfactory, paid experience installing and maintaining each of the following, including two years supervising subordinates engaged in this kind of work:

- A. local area networks.
- B. wide area networks.

For Appointment to the Wide Area Network Specialty:

Bachelor's degree from a regionally accredited or New York State registered college or university, including or supplemented by eighteen (18) credits in a computer field and

Six years of satisfactory, paid experience installing and maintaining wide area networks; including two years supervising subordinates engaged in this kind of work.

For Appointment to the Local Area Network Specialty:

Bachelor's degree from a regionally accredited or New York State registered college or university, including or supplemented by eighteen (18) credits in a computer field and

Six years of satisfactory, paid experience installing and maintaining local area networks; including two years supervising subordinates engaged in this kind of work.

NOTE - APPLICABLE TO ALL SPECIALTIES:

1. Experience, as outlined for **all** specialties above, in excess of the six-year requirement, may be substituted for college education on a year-for-year basis.
2. A network engineer certificate validated by one of the major network software vendors may be substituted for six months of the experience, as outlined for **all** specialties above.

Necessary Special Requirement For All Specialties:

Continuing possession of an appropriate class, valid Driver's License issued by the State of New York may be required.

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