NASSAU COUNTY

Title : NETWORK SPECIALIST I (LOCAL AREA NETWORK) (WIDE AREA NETWORK) (LOCAL AND WIDE AREA NETWORK)

SCHOOL DISTRICTS
CLASS SPECIFICATION

Code: 030165 BSF
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Competitive

GENERAL STATEMENT OF DUTIES
Designs, installs, configures, and maintains 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 are technically complex and require the use of considerable judgment.

TYPICAL DUTIES
*   1. Configures, installs, and maintains LANs and/or WANs, including repeater hubs, switches, and routers.
*   2. Installs, supports, and implements LAN and/or WAN operating systems.
*   3. Designs and configures various LANs and/or WANs.
*   4. Administers an internet/intranet system, and maintains access at all workstations.
    5. Configures, maintains, and installs integrated service digital network (ISDN) routers and monitor connectivity between buildings.
    6. Maintains records on LANs and/or WANs, including hardware and software information.
    7. Assists in the training and instruction of users in LANs and/or WANs.
*   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 Systems Internetworking (OSI) routing protocols.

*TYPICAL ESSENTIAL FUNCTIONS
FULL PERFORMANCE KNOWLEDGES, SKILLS, AND ABILITIES
For Appointment to the Local and Wide Area Network Specialty.
1. Thorough knowledge of the principles, practices, and procedures of LAN/WAN design, installation, and configuration.

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

For Appointment to the Local Area Network Specialty:
1. Thorough knowledge of the principles, practices, and procedures of LAN design, installation, and configuration.
2. Thorough knowledge of the software required to maintain LAN operating systems, and to program and modify LAN systems software.
3. Considerable knowledge of LAN systems configuration.
4. Considerable 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 express oneself effectively, both orally and in writing.
2. 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. Two years of satisfactory, paid experience installing and maintaining both local and wide area networks;
   or
2. Two years of satisfactory, paid experience installing and maintaining each of the following:
   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
Two years of satisfactory, paid experience installing and maintaining wide area networks.

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
Two years of satisfactory, paid experience installing and maintaining local area networks.

NOTE - APPLICABLE TO ALL SPECIALTIES:

1. Experience, as outlined for all specialties above, in excess of the two-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.