

## **INFORMATION SERVICES NETWORK MANAGER**

### DEFINITION

Under direction, to design, plan, maintain, install and monitor the district instructional and administrative wide area network (WAN); to establish district standards and methodologies in cabling, infrastructure design and implementations; to ensure contractors and district personnel comply with defined standards; to participate in planning and design of the district network resources and expansion; to provide support and be a resource to district projects that embrace network solutions; to include research and recommendations that will ensure network performance, efficiencies and standards; to employ and develop global solutions to network requirements; to research, install and maintain network monitoring tools that will track network traffic and performance; to participate in computing device integration strategies that are on LAN's or WAN's if there are immediate indications that future district network connectivity is needed.

### EXAMPLES OF DUTIES

Monitor and maintain performance of district network and network utilization; concentrate on local area networks that are connected to the district network, with school connections next, and schools that are connected to the district network via WAN technologies or wireless technologies; provide leadership in network hardware selections, topology design and implementations; direct involvement with WAN computing device integration needs; research and recommend network solutions consistent with district technology goals; maintain all, routers and bridges, data switches, access points, firewalls, filters, and intrusion detection systems on the district network; perform LAN and WAN server administration and develop, train and install network monitoring tools of Technology Services staff; evaluate third party software products; and perform related work as required.

### QUALIFICATIONS

#### Knowledge of

Principles and practices of state-of-the-art computing networks in a centralized and distributed setting; limitations of currently installed hardware and software; statistical methods and procedures; cabling strategies; bridges, routers, TCP/IP, Ethernet, data switches, as well as emerging networking technologies such as load balancers, cache devices, packet shapers, meters, VPN's; recommend network management tools; have working knowledge of switching and other telephony methodologies; and research network opportunities for transmission of voice, data and video.

#### Ability to

Analyze and design network systems to maximize district resources and provide adequate networks for growth; make sound judgments related to network usage and system performance; analyze data and draw sound conclusions; train backup personnel for network specialist coverage; provide guidance for other Technology Services staff including Information Systems Analyst, Computer Analyst II,

Computer Analyst I and Technology Specialists; participate in installing network hardware and software in off-hour settings; prepare clear, complete and concise reports; work independently; maintain and establish cooperative working relationships.

#### Experience

Five years experience in network management responsibilities; demonstrated success in coordinating large network LAN's and WAN's; proven ability to establish and communicate network decisions in the best interests of protecting current investments; knowledge of industry standard network equipment and performance tools; and experience and responsibility for products listed above.

#### Education

Any combination of education or experience equivalent to a BS or BA from a four-year college, university or technical school. Technology emphasis preferred. Networking certificates preferred.

#### Physical Performance Requirements

Considerable standing, walking, or sitting much of the time with some bending, stooping, squatting and twisting. Lifting often involved. Weight of materials will vary, with employees regularly lifting and maneuvering 20 to 30 pounds. May work on irregular surfaces or at heights above the ground.

#### Licenses

Possession of a valid and appropriate California Driver's License.

Board Approved: May 11, 1999

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