

BOISE SCHOOL DISTRICT

CLASS SPECIFICATION

IT NETWORK ENGINEER

Purpose of Class

Provides design administration and support for District Information Technology Enterprise operations and Cisco hardware, software and performs related duties as assigned.

Primary Function

The principal function of an employee in this class is responsibility for design specifications, recommendations, acquisitions, implementation and administration for hardware and software infrastructure. Including but not limited to Cisco switching and routing environments, Lightspeed web filter, Cisco phone systems as well as integration with other system software. The work is performed under the supervision of the Information Technology Operations Manager. The Network Engineer works with latitude for the exercise of independent judgment and initiative in accomplishing work to operate and maintain assigned network systems. The principal duties of this class are performed in a general office environment. Driving to and from various district locations is required.

Essential Duties and Responsibilities (will vary by assignment)

- Leads, oversees and participates (create, monitor, and maintains) the Cisco network by managing the switching, routing, load balancers, VPN, QOS and voice needs of the district and facilitates regulatory compliance as required;
- Oversees and participates in the (maintenance) Data Center, HVAC, and supporting hardware;
- Perform network maintenance and system upgrades including service packs, patches, hot fixes and security configurations;
- Monitor system resource utilization, trending, and capacity planning
- Provide Level-2/3 support and troubleshooting to resolve issues
- Coordinates with departmental teams for installation, management and support of server applications, client server application, or web accessible applications;
- Analyze system logs and files to monitor and improve system performance;
- Perform all work duties and activities in accordance with District policies, procedures, and safety practices;

Other Duties and Responsibilities

- Participates in the evaluation of proposed solutions by performing technical research, and provides technical input to evaluative teams; Provides back-up support to department staff as required;
- May perform other special projects related to network technology; Performs other related duties as required.

Competency Requirements:

- Proven hands-on network engineering experience
- CCNP or higher (CCIE and/or CISSP highly valued)
- Deep understanding of networking protocols (e.g., IPSEC, HSRP, BGP, OSPF, 802.11, QoS)
- Solid understanding of the OSI or TCP/IP model
- Hands-on experience with monitoring, network diagnostic and network analytics tools

Ability to:

- Develop and recommend cost effective technical system improvements;
- Develop conceptual frameworks and apply state-of –the-art technology to the design and management of network infrastructures.
- Install, configure, maintain the operation of complex network systems to achieve optimal technical performance and end user support;
- Communicate effectively, both verbally and in writing; Prepare clear, concise and accurate program documentation, reports of work performed and other written materials;
- Establish priorities and work within time constraints and deadlines;
- Operate a personal computer and use program applications appropriate to assigned duties;
- Operate a motor vehicle;
- Follow written and oral instructions;
- Communicate effectively and establish working relationships with users, other employees, administrators, and the public;
- Perform multiple tasks simultaneously, including handling interruptions, and return to and complete tasks in a timely manner;
- Exercise sound independent judgment; Work independently, with minimal supervision, and make appropriate decisions in the absence of a supervisor;
- Maintain the confidentiality of all proprietary and confidential data and information residing in the District.

Acceptable Experience and Training

- Bachelor’s Degree in Computer Science; and
- Prefer three – five years of Equivalent professional experience is required
- Any equivalent combination of experience and training which provides the knowledge and abilities necessary to perform as an effective and competent Network Engineer.
- Prefer Cisco CCNE Certification.

Essential Physical Abilities

- Clarity of speech and hearing or other communication capabilities, with or without reasonable accommodation, which permits the employee to understand verbal instructions and to communicate effectively on the telephone and in person;
- Sufficient visual acuity, with or without reasonable accommodation, which permits the employee to comprehend written work instructions; troubleshoot and install computer systems and equipment, and organize documents and materials;
- Sufficient manual dexterity, with or without reasonable accommodation, which permits the employee to operate standard office equipment, repair and maintain computer systems and related equipment and to operate a motor vehicle;
- Sufficient personal mobility, flexibility, and balance, with or without reasonable accommodation, which permits the employee to work in various office/school locations with computer equipment, lifting or moving objects that weigh up to 50 lbs.
- Job tasks may require, with or without reasonable accommodation, climbing, stooping, and kneeling, crouching, reaching, standing, walking, lifting, fingering, grasping and repetitive motions.