

 <p>STATE OF INDIANA CLASSIFICATION SPECIFICATION</p>	Class Title: Network Engineer – Intermediate		Class Code: 001BK2
	FLSA Status: Exempt	Salary Schedule: RDS	Effective Date: 11-25-14
	Summary: Incumbent is responsible for the configuration and implementation of networks including the core, distribution and access layers of a network.		

Duties:

- Provides guidance regarding the architecture, planning, design and implementation of complex network systems;
- Incumbent oversees network devices including, but not limited to, multi-layer switches/routers, client and network VPN appliances, intrusion prevention systems, firewalls, protocol analyzers, video over IP, network management products, wireless networks and Voice over IP (VoIP) systems or any other new technology;
- Facilitates timely repairs ensuring the availability of technology related systems;
- Works on problems of diverse scope;
- Provides resolution of issues for the campus area network, wide area network and other local area networks;
- Maintains multi-layer switches and routers;
- Performs identification of system/network problems;
- Performs the testing, adjusting and troubleshooting of equipment;
- Interfaces with vendor support to resolve hardware/software compatibility issues;
- Supports, monitors and troubleshoots hardware/software problems and recommends scheduling of repairs;
- Provides guidance to user agencies for maximum utilization of the communications infrastructure;
- Assists in the planning of large-scale systems projects through vendor comparisons and cost studies;
- Performs related duties as required.

Job Requirements:

- Advanced knowledge of networking hardware/software;
- Advanced knowledge of LAN/WAN systems, networks and applications;
- Advanced knowledge of multi-protocol network environments;
- Advanced knowledge of switching techniques;
- Advanced knowledge of load balancing methodologies;
- Advanced knowledge of advanced encryption strategies (VPN tunneling, etc.)
- Advanced knowledge of different topology systems;
- Advanced knowledge of network design and traffic engineering;
- Advanced knowledge of network capacity planning and event management tools;
- Advanced knowledge of all guidelines, policies and procedures related to multi-protocol services;
- Considerable knowledge of wireless protocols and technologies;
- Effectively communicate, both orally and in writing;
- Ability to read, understand and interpret complex manuals and blue prints.

Difficulty of Work:

Incumbent uses considerable knowledge in selecting the most pertinent guidelines to follow. Work is broad in scope and requires in-depth analysis of multiple variables to fit circumstances of a medium to complex enterprise-wide system.

Responsibility:

Incumbent works closely with higher-level staff and/or management to outline general objectives and boundaries that incumbent will follow to meet the requirements of the agency. Unusual problems or deviations from guidelines or practice are discussed with manager at the discretion of the incumbent. Work is reviewed for attainment of objectives and compliance with policy and practice.

Personal Work Relationships:

Incumbent interacts with all levels of management in, and outside of the agency, unit, division and department personnel for the purpose of planning, coordinating, installing and implementing various networking projects and to resolve operational issues. Outside vendors are contacted in gathering information, obtaining professional support and resolving issues. Incumbent must use diplomacy and persuasion in gaining consensus regarding network and telephone system and service issues.