

## The Fundamentals of Network Security Alignment to Standardized Job Clusters

### **Job Cluster Description - Fundamentals of Network Security**

The Fundamentals of Network Security provides a strong foundation that can be applied to a wide variety of careers in many industries. The career options listed below are representative of the type of job titles aligned with the skills obtained by students that have completed this security curriculum, along with the CCNA (CCNA1 through CCNA4) curriculum.

### **Internet Network Specialist Entry Level**

Assists with defining network architecture, identifying infrastructure components and monitoring network performance. Assists with the design and management of enterprise TCP/IP networks. Works under direct supervision. Reports to a manager.

### **Internet Network Specialist Intermediate Level**

Defines network architecture, identifies infrastructure components and monitors and analyzes network performance. Also designs and manages enterprise TCP/IP networks. Works under general supervision. Reports to a manager.

### **Internet Network Specialist Senior Level**

Responsible for defining network architecture, identifying infrastructure components and monitoring and analyzing network performance. Also responsible for the design and management of enterprise TCP/IP networks. Works under limited supervision. Typically reports to a manager.

### **Internet Security Specialist Entry Level**

Assists in securing networks from unauthorized activity. Has a limited understanding of the hacker's mind-set and knows how to enforce appropriate security measures to protect networks from hacker activity. Has basic understanding of how to properly protect Windows and Linux systems in various settings. Requires limited creativity. Works under direct supervision. Reports to a manager.

### **Internet Security Specialist Intermediate Level**

Secures networks from unauthorized activity. Understands the hacker's mind-set and knows how to enforce appropriate security measures to protect networks from hacker activity. Understands how to properly protect Windows and Linux systems in various settings. Requires creativity. Works under general supervision. Reports to a manager.

### **Internet Security Specialist Senior Level**

Responsible for securing networks from unauthorized activity. Understands the hacker's mind-set and knows how to enforce appropriate security measures to protect networks from hacker activity. Develops ways to properly protect Windows and Linux systems in various settings. Requires a high degree of creativity. Works under limited supervision. Typically reports to a manager.

### **Internet Systems Administrator Senior Level**

Responsible for managing and tuning Internet and intranet infrastructure, including Web, FTP, news and mail servers. Also responsible for configuring, managing and deploying e-business solutions servers. Works under limited supervision. Typically reports to a manager.

### **Network Administrator Senior Level**

Installs, configures and maintains the network. Builds networks and maintains external and internal web presence. Administers the network. Responsible for designing and supporting server systems and

supporting software. Performs system back-ups on internal and external web network servers. Typically reports to a manager.

**Network Analyst Senior Level**

Reviews, plans and evaluates network systems. May troubleshoot network systems and recommend improvements to network. Provides documentation, project tracking and management reporting. Provides tactical and strategic input on overall network planning and related projects. Typically reports to a manager.

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