

## **Network Engineer (1)**

### **Roles and Responsibilities**

The Network Engineer is responsible for daily administration, maintenance, installation and general support of the USDA, OCIO, Network Services Branch (NSB) Metropolitan Area Backbone. He/She is responsible for accessing the OCIO backbone for feasibility of VOIP, Wireless, IPV6 implementation. The main duties are listed below:

#### **ADMINISTRATIVE TASKS**

- Monitoring network usage;
- Generate and update ITSM tickets when required
- Act as back up for monitoring/answering the NOC service line
- Opening/updating the WTSO bulletin board
- Managing system backup and restore (Syslog, Tacacs, Cisco Works)
- Monitoring System log files
- Managing System access
- Validating proper system configuration

#### **DAILY/WEEKLY/MONTHLY TASKS**

- At times, act as team lead for other staff
- Installing, supporting and maintaining new hardware and software infrastructure;
- Allocating network resources;
- IDS monitoring (Cisco VMS server, Microsoft)
- Setting up user accounts, permissions and passwords;
- Maintaining the IP address management database;
- Device configuration management - Cisco TFTP server
- Generate and update ITSM tickets when required
- Act as back up for monitoring/answering the NOC service line
- Opening/updating the WTSO bulletin board
- Ensuring that all IT equipment complies with industry standards;
- Analyzing and resolving faults
- Undertaking routine preventative measures and implementing, maintaining and monitoring the NSB network
- Providing technical support for users with varying levels of IT knowledge and competence;
- Working closely with other departments/organizations and collaborating with other IT staff;
- Planning and implementing future IT developments and undertaking project work

#### **TROUBLESHOOTING /SUPPORT**

- Cisco 3000 VPN concentrator
- Network Core/Distribution Routing with Cisco IOS
- Provides back up for Network Access-layer switching with Cisco IOS
- Primary for VLAN Support & administration with Cisco IOS/Cisco Works 2000
- IDS Monitoring Cisco VMS Server (Microsoft)
- Firewall Protection Checkpoint
- Network Map documentation/administration (Visio)
- Network, Troubleshooting, Support and recommendations
- Security Troubleshooting, Support and recommendations
- VLAN support and administration (Cisco IOS; Cisco works 2000)
- Suggesting and providing solutions to problems



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