Rana Usama Shahzad

Telecom & Network Implementation / Network Administrator

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Professional Profile

Practical Network Administrator with a Diploma in Telecommunication & Networking and strong hands-on experience in LAN/WAN administration, FTTH/GPON access networks, internet service management, user support, and telecom system operations. Focused on configuration, administration, and maintenance of switches, routers, Wi-Fi networks, ONT/OLT platforms, and structured cabling. Skilled in creating and managing user networks, IP addressing, VLAN segmentation, router configuration, backup & documentation, and ensuring network availability and security at sites and offices. Combines telecom field exposure with solid network administration responsibilities.

Network Administration Competencies

- LAN/WAN administration and small-to-medium network management
- User account/device onboarding, IP allocation and address management
- Switch & router configuration: VLANs, trunks, inter-VLAN connectivity
- FTTH/GPON administration: OLT profile management and ONT activation
- Wi-Fi network administration: SSID planning, security, and coverage improvement
- DHCP, DNS, NAT configuration (basic to intermediate level)
- Network performance monitoring at site level and corrective actions
- Network documentation: IP plan, patch panel mapping, device inventory
- Data cabinet organization, labeling, rack mounting & power management
- Backup of device configurations and change logs

Certifications

- CCNA (Routing & Switching) Just practical's
- Fiber Optics Network Design and Maintenance – Coursera

Technical Skills Summary

Internet & ISP: PPPoE, DHCP, NAT, VLANs, user onboarding and service migration Access Networks: GPON/FTTH, OLT/ONT configuration, light level verification Routing & Switching: Cisco routers/ switches (basic configuration, VLANs, trunks) Wi-Fi/WLAN: SOHO & enterprise AP installation, controller basics, coverage optimization Tools & Testing: OTDR, Power Meter, Fusion Splicer, Optical power reading interpretation Troubleshooting: LOS/LOF, low SNR, poor Wi-Fi, bandwidth choking, CPE issues Systems: PABX, SDH, CCTV, Access Control (retained – no telecom data removed)

Network Administration Responsibilities

- Managed day-to-day site networks including switches, routers, APs, ONTs
- Created and maintained VLANs, IP plans, and user connectivity
- Configured CPEs and office routers for internet and VoIP services
- Performed backup/restore of device configurations and version upgrades assistance
- Implemented basic security controls (strong passwords, SSH, disabling unused ports)
- Coordinated with vendors only for escalations while handling local administration independently

Professional Experience

Telecommunication Technician (OSP, FTTH, ICT & ELV)

MOTECO – Jeddah, Saudi Arabia | Feb 2023 – Present - Configured and installed Cisco routers and switches including basic routing and VLAN segmentation. - Configured ONTs/OLTs for FTTH subscribers, performed activation, signal level verification and service testing. - Performed corrective and preventive maintenance on Fixed Network systems in the western region. - Conducted troubleshooting for PABX, SMR, DMRS, SDH equipment and restored network services. - Executed structured cabling, termination, labeling, and end-to-end testing. - Integrated CCTV and Access Control systems within IP network infrastructure. - Supported NOC during network outages including link down, high utilization and service degradation cases. - Prepared network activity reports, test results, red-line/as-built drawings and close-out documentation. - Participated in Hajj high-load operations providing field support for critical communication systems.

Key Network Contributions: - Resolved multiple FTTH and enterprise customer network faults within SLA targets. - Improved fiber link quality by conducting OTDR testing and loss-budget analysis. Implemented structured cabling standards reducing rework and downtime.

Telecom Technician

Signal & Binary Engineering – Multan, Pakistan | Sep 2020 – Dec 2021 - Installed and maintained PABX systems, telephone lines and MDF distribution. - Installed underground fiber optic and indoor cabling for enterprise clients. - Performed fiber splicing, OTDR testing, continuity and power-loss measurements. - Supported implementation of new PABX/fiber connectivity requests per telecom standards. - Troubleshot network issues related to cabling, media converters, and customer premises equipment. - Assisted senior network engineers in switch configuration and service migration tasks.

Key Achievements

- Successfully administered network for multiple sites with stable uptime
- Optimized Wi-Fi and LAN performance through proper VLAN and IP planning
- Reduced user complaints by improving switching layout and patch panel organization
- Maintained updated inventory and configuration backups to speed up recovery

Additional Highlights

- Familiar with ITU-T, ISO/IEC, BICSI structured cabling and safety standards
- Ability to read fiber route maps, splice diagrams, and OTDR traces
- Strong customer-handling, site supervision and subcontractor management capability
- Commitment to HSE compliance and safe work practices on live network environments

Projects

- FTTH/GPON deployment for smart-city infrastructure (ducting, pulling, splicing, activation)
- MiSK Smart City and PTA infrastructure rollout participation
- ELV/CCTV deployment and IP integration for enterprise customers

Education

Diploma in Telecommunication & Networking

- (Hands-on focused: networking labs, fiber optics practice, router/switch configuration exercises)
- Note: Practical, project-based diploma with strong on-site experience instead of formal engineering degree

Languages

- English
- Urdu
- Arabic

Professional Information

- Iqama: 2520408275 (Transferable)
- Saudi Driving License
- Date of Birth: 13-Nov-1998
- Nationality: Pakistani

Availability

- Ready to join immediately
- Open to roles: Network Engineer, NOC Engineer, FTTH/GPON Engineer, Network Support Engineer