Networking 101 is a foundational course designed to address the needs of people who are new or returning to the networking field. This course will address LAN/WAN technologies, how to configure routing and switching, and how to secure the implemented technologies.

Students will gain the confidence to communicate effectively regarding network security topics, terms and concepts while applying computer network basics and security best practices on established networks.

This course covers everything from core terminology to the “how” computers and networks function, security policies, risk management, a new way of looking at passwords, cryptographic principles, network attacks and malware, wireless security, firewalls and many other security technologies, web and browser security, backups, virtual machines and cloud computing.

This course is for students who are new or need a refresher on the technical side of networking. Students with no IT experience will find this session a complete primer on networking, while more experienced students may find in-depth details around subjects they may only know at the cursory level. The Networking 101 course is to ensure all students have the basic fundamental knowledge to understand how networks work, and the different components that are accessible in a network and lead them to how they can be affected or targeted by attackers or actors at the data link and network level.

You Will Be Able To
- Recognize, discuss, and configure routing and switching protocols and manipulate their metrics
- Gain a fundamental grasp of TCP/IP, IP, TCP, UDP, MAC, ARP, NAT, ICMP, DNS, and more
- Utilize built-in Windows tools to see and configure your network settings
- Configure various security technologies including firewalls, IDS/IPS, sniffers, and SIEM solutions
- Explain network hardening, monitoring, and traffic analysis

You Will Receive
- A USB Flash Drive with all labs and course material
- Bound copy of course material
- One Month Guild Membership (For Non-Guild Members)