* Explain important concepts in network communication.
* Explain network types, components, and connections.
* Configure mobile devices for wireless access.
* Configure an integrated wireless router and wireless client to connect securely to the internet.
* Explain the importance of standards and protocols in network communications.
* Describe common network media.
* Explain how communication occurs on Ethernet networks.
* Explain the features of an IP address.
* Explain how IPv4 addresses are used in network communication and segmentation.
* Explain features of IPv6 addressing.
* Configure a DHCP server.
* Explain how routers connect networks together.
* Explain how ARP enables communication on a network.
* Create a fully connected LAN.
* Explain how clients access internet services.
* Explain the function of common application layer services.
* Use various tools to test and troubleshoot network connectivity.