



# Computer Networks

Wireless Networking ..... 50  
VOIP..... 50

## Wireless Networking

The Wireless LAN Administration course provides the networking professional a complete foundation of knowledge for entering into or advancing in the wireless networking industry. From basic RF theory to 802.11 frame exchange processes, this course delivers hands-on training that will benefit the novice as well as the experienced network professional.

### Learning Objectives

- Introduction to 802.11 WLANs
- RF Power Output Regulations
- 802.11 Analysis and Troubleshooting
- Radio Frequency Fundamentals
- Power over Ethernet
- Coordinating 802.11 Frame Transmissions
- Antennas
- RF Math and System Operating Margin
- Wireless LAN Operation
- 802.11 Service Sets
- WLAN Security
- Site Surveying

### Who Should Attend

- This course is intended for those who are looking learn the skills necessary to implement and configure a wireless network environment

## VOIP

A suite of application protocols known as Voice over IP (VoIP) is covered in this program. Important protocols within that suite, including Real-time Transport Protocol (RTP), Session Description Protocol (SDP), Media Gateway Control Protocol (MGCP) and Session Initiation Protocol (SIP), are described and the architecture of various VoIP installations including on-net to on-net, on-net to Public Switched Telephone Network (PSTN) and inter-domain scenarios is described.

### Learning Objectives

- Goals, definitions, standards bodies and protocols of VoIP
- VoIP architectures
- VoIP network elements
- Structure and functions of Media Gateway Control Protocol (MGCP)
- Structure and functions of Network-based Call Signaling (NCS)
- Security considerations and emergency services
- Inter-domain architecture and its basic call scenarios for VoIP
- Session Initiation Protocol (SIP) structure, profile and extensions

### Who Should Attend

- Those who have a background in computer networks. Knowledge of TCP/IP is recommended