

Course Name: WLAN Installation and Maintenance

Course Overview:

This course is designed as a hands-on course focused on common technologies and equipment utilized in a wireless LAN. Wireless equipment can be complex to setup and no two networks are completely alike. Speak with one of our training specialists to see how this course can be customized or combined with other TESSCO courses for a complete solution. At the end of this course the attendee will have a solid understanding of the following: networking fundamentals, wireless standards and variations, installing WLAN equipment, wireless administration and security, troubleshooting and testing. Fine-tune the points or products and techniques of particular importance to your operations. Our skilled instructors and staff will tailor the module to meet your requirements.

Tessco offers the ability to verify understanding of concepts learned through an on-line testing and certification system.

Course Length: 2 Days

Who should Attend:

- LAN/WAN/Internetworking Technicians
- Network Administrators
- Site operators and managers
- Supervisors
- On-technical employees who interface with networks

You will learn:

- Understanding the overview of a network
- Identify the different wireless network standards and variations
- Installing wireless equipment
- Configuring wireless Access Points
- Understand and setup wireless security
- Troubleshoot a wireless network to minimize downtime
- Operate common test equipment

Prerequisites: None

Customizable Course: Yes

Course Content:

Day 1:

Networking Review

- Network Architecture
- How does wireless fit?
- Physical Hardware
- Logical Network Protocols

Benefits of a Wireless Network

- Central management
- Implementation
- Resource Sharing

Sharing Data between Computers

- Logical Topologies
- Network Types

Wireless Standards

- What is a standard?
- Different variations
- Speeds
- Distances

IP Addressing & DHCP

- Makeup of an IP address
- Static/Dynamic IP
- DHCP Servers
- DHCP Scopes

Equipment

- Access Points
- Antennas
- Wireless Adapters

(Course can be customized to specific equipment)

Installing Equipment

- Installing Different Access Points
- Configuring Access Points

Multiple Access Points

Day 2:

Wireless Administration

- Administrating the Network
- SSID
- Channel Assignment
- Address Assignment
- Network Security
- Different Security Modes (WEP,WAP...)
- Firewall Basics

Troubleshooting the Network

- Interference
- Congestion
- User Errors
- Security Issues
- Replacing the Access Point

Test Equipment

- LAN (Laptops and software)
- WLAN (Analyzers and Software)

Hands-on Exercises