

Cisco Wireless Mesh Networking Class

Agenda

CWMN v3.0

(3-day class)

Day 1

8:30 AM - 9:15 AM	Module 0: Introduction
9:15 AM-10:30 AM	Module 1: Describing the Cisco Wireless Mesh Solution <ul style="list-style-type: none">• RF Theory• Access Point Roles• 802.11h Standard• Selecting Antennas
10:30 AM - 10:45 AM	Break
10:45 AM - 12:00 Noon	Module 2: Configuring a Wireless LAN Controller <ul style="list-style-type: none">• WLAN Controller Overview: Configuration Basics• WLAN Controller Security and Mobility
12:00 PM - 1:00 PM	Lunch
1:00 PM - 3:30 PM	Lab 1: Controller Configuration <ul style="list-style-type: none">• Set up Console Port Configuration• Understanding Controller Boot Options• Configure the Controller Using CLI Startup Wizard• Examine Controller Settings with Show Command• Use CLI To Reset Controller To Factory Defaults• Use Web Based GUI Startup Wizard
3:30 PM - 3:45 PM	Break
3:45 PM - 5:00 PM	Lab 2: Manage the Controller <ul style="list-style-type: none">• Use Web-based GUI to Connect to Controller• Use Web-based GUI to Monitor the Controller• Set Open Authentication on the Default Wireless LAN• Backup Configuration on the Controller
5:00 PM	End of Class

Cisco Wireless Mesh Networking Class

Agenda

CWMN v3.0

(3-day class)

Day 2

8:30 AM - 10:30 AM	Module 3: Installation, Configuration and Maintenance of Mesh Networks <ul style="list-style-type: none">• Installing Access Points• Access Point and Bridging Group Configurations• Configuring the Controller Using the GUI to Add the AP to the Mesh Network• Connectivity Verification
10:30 AM - 10:45 AM	Break
10:45 AM - 12:00 Noon	Lab 3: Deploy Mesh APs <ul style="list-style-type: none">• Prepare for Mesh APs for Deployment• Connect 1242 Access Points, Starting In Local Mode and Upgrade to Bridge-Mode Capable Code• Bring Up Mesh Network• Enable Ethernet Bridging• Verify Channels and Transmit Power• Verify Association and Interconnection
12:00 PM - 1:00 PM	Lunch
1:00 PM - 3:00 PM	Lab 4: WCS Mesh Support <ul style="list-style-type: none">• Add Controller to WCS• Use WCS to Configure the Controller• Use WCS to Create a Campus• Add Mesh APs to Outdoor Area and Display Mesh Coverage• WCS Troubleshooting Capabilities• Defining a BGN Template• Monitoring Mesh Alarms Lab 5: File Transfer via Bridged Link <ul style="list-style-type: none">• Confirm Initial Configuration• Testing Bridging Restrictions• Turn on Ethernet Bridging and Transfer Files
3:00 PM - 3:15 PM	Break
3:15 PM - 5:00 PM	Lab 6: Mesh Support Tools <ul style="list-style-type: none">• Create Web Authentication• Checking Backhaul• Client Debugging• Backhaul Client Access
5:00 PM	End of Class

Cisco Wireless Mesh Networking Class

Agenda

CWMN v3.0

(3-day class)

Day 3

8:30 AM - 10:00 AM

Lab 7: WCS Mesh Reports

- Mesh Alternate Parents
- Link Statistics
- Mesh Node Hops
- Packet Error Stats
- Mesh Packet Stats

10:00 AM - 10:15 AM

Break

10:15 AM - 11:00 AM

Lab 7: WCS Mesh Reports (Cont.)

- Worst Node Hops
- Worst SNR Links

11:00 AM - 12:00 PM

Module 4: Wireless Mesh Design Requirements

- Mesh Network Overview: Components, Protocols, and Functionality
- Mesh Network Features and Applications

12:00 PM - 1:00 PM

Lunch

1:00 PM - 2:00 PM

Module 4: Wireless Mesh Design Requirements (Cont.)

- WCS Map and Mesh Enhancements
- Administration and Maintenance

2:00 PM - 2:15 PM

Break

2:15 PM - 4:30 PM

Module 5: Verification and Troubleshooting

- Validating WLAN Configurations
- CLI Support Tools
- Identify Other Considerations for Troubleshooting
- GUI Support Tools

4:30 PM - 5:00 PM

Wrap-up/End of Class