

Module 1: Fundamentals of RF Signals and Spectrum Analysis

Advanced principles of RF signals and modulation

In-depth study of antennas and RF mathematics

Practical spectrum analysis using professional tools

Hands-on lab: Analyzing RF signals and interference

Module 2: Strengthening WLAN Security and Authentication

Fortifying networks against sophisticated security threats

Implementing cutting-edge WPA3 and advanced encryption

Exploring robust authentication techniques for enhanced security

Hands-on lab: Configuring advanced WLAN security measures

Module 3: Advanced WLAN Troubleshooting and Optimization

Advanced methodologies for WLAN troubleshooting

Identifying and resolving complex WLAN challenges

Implementing performance optimization techniques

Hands-on lab: Troubleshooting real-world WLAN scenarios

Module 4: Cisco Unified Wireless Network (CUWN) Deployment Strategies

Understanding the intricacies of CUWN architecture

Configuring controllers, access points, and wireless services

Hands-on lab: Setting up a Cisco Unified Wireless Network

Module 5: Harnessing Advanced WLAN Services and Location-Based Solutions

Leveraging advanced wireless network services

Exploring the potential of location-based solutions

Implementing high-level WLAN services for network enhancement

Hands-on lab: Integrating advanced WLAN services