

Curso Wireless

Los objetivos contemplan el conseguir los conocimientos base de la tecnología wireless a través de una introducción a los fundamentos de la tecnología inalámbrica Cisco. Nos dará conocimiento suficiente para poder implementar y desarrollar una solución de red inalámbrica Cisco y por último conseguir un nivel avanzado en dicha tecnología por medio de una documentación y prácticas de laboratorio preparadas para alcanzar nuestro objetivo.

El curso incluye los siguientes puntos importantes:

- Fundamentos de Tecnología Inalámbrica Cisco.
- Implementación de redes inalámbricas en entornos Cisco.
- Wireless Avanzado.

Estos puntos se desarrollarán en el siguiente Temario:

1. Wireless Fundamentals

- Wireless Networks and Topologies
- Wireless LANs RF Principles
- Radio Frequency Mathematics
- Antennae
- Spread Spectrum Technologies
- Wireless Regulatory Bodies, Standards, and Certifications
- Wireless Media Access
- Non-802.11 Wireless Technologies and their Impact on WLANs
- The Journey of a Wireless Frame
- Design and Site Survey Considerations

2. Install a Basic Cisco Wireless LAN

- Cisco Unified Wireless Network Architecture Basics
- Configure a Controller
- Discover and Associate with a Controller
- AP Operational Modes
- Roaming
- Manage the Network from the Controller
- Configure and Migrate Standalone Access Points

3. Implement Basic WLAN Security

- WLAN Security
- Establish IEEE 802.11 Security
- Centralize WLAN Authentication
- EAP Authentications
- Manage Authentication and Encryption with WPA and WPA2
- Configure Wireless Security on Controllers and Clients

4. Operate Basic WCS

- WCS And Cisco WCS Navigator
- Install Cisco WCS Interface
- Controllers from Cisco WCS
- WCS: Work with Pre-Configured Maps
- WCS: Monitor the Network with Cisco WCS

5. Design WLAN Infrastructure for Mobility

- Best Practices for WLAN Mobility Services
- Implications of Layer 2 and Layer 3 Roaming
- Design for High Availability
- Implement Single SSID Designs with Mobility
- Cisco CleanAir

6. Implement Advanced Services and Manage with Cisco WCS and Cisco WCS Navigator

- Install the WCS and Navigator
- Configure Controllers and Access Points Using WCS Templates
- Configure WCS for WLC Auto-Provisioning
- Implement WCS Partitioning
- Schedule Wireless Access using WCS
- Configure Reports
- Configure Administrative Tasks
- Monitor and Convert Autonomous APs using WCS
- Roles, Features, and Functions of Cisco WCS Navigator

7. Implement and Manage Indoor and Outdoor Networks

- Wireless Mesh Networks