

## CISCO WIRELESS

Duración: 5 días, 35 horas

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
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## 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 Cisco Control Prime Infrastructure (PI)

- PI Overview and Navigation
- PI Services
- PI Inventory
- PI Maps and WIFI Projects

## 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 Control Prime Infrastructure (PI)

- Configure Controllers and Access Points Using PI Templates
- Configure PI for WLC and APs Auto-Provisioning
- Configure Reports
- Configure Administrative Tasks
- Monitor and Convert Autonomous APs using Cisco PI
- Roles, Features, and Functions of Cisco PI

## 7. Implement and Manage Indoor and Outdoor Networks

- Wireless Mesh Networks
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