# ITTcert
BY ORSYS

# Course : Understanding Cisco Wireless Foundations (WLFNDU) v2.0

**Official course: Understanding the basics of Cisco wireless networking**

*Practical course - 5d - 35h00 - Ref. IUB*
*Price : 4250 € E.T.*

With this course, you'll learn how to configure, manage and troubleshoot a Cisco wireless LAN (WLAN), master the basics of radio technologies (RF), Wi-Fi and security standards, design, install and size a WLAN of any size, and use Cisco DNA Center.

## Teaching objectives

**At the end of the training, the participant will be able to:**

- Understand and apply the basics of wireless network theory
- Mastering mathematics and antennas for an optimal wireless environment
- Mettre en œuvre le fonctionnement fondamental du sans-fil, incluant le Wi-Fi 6
- Manage security and client access in a wireless network
- Implement 802.1X and the EAP protocol for secure authentication
- Configuring guest access and security in Wi-Fi networks
- Cisco wireless architecture and deployment options
- Describe CAPWAP, controllers, access points and Cisco deployment modes
- Wireline support for Cisco wireless networks
- Deploy, maintain and monitor Cisco wireless networks via Cisco DNA Center

## Intended audience

Network engineers, systems engineers, wireless engineers, technical solution architects, network administrators, wireless network designers, network managers.

## Prerequisites

General knowledge of networks, wireless networks, routing and switching required before taking this course.

## Certification

This course does not lead directly to a certification exam, but it covers the basic knowledge that can help you prepare for professional-level enterprise wireless courses and exams: ENWLSD (Designing Cisco Enterprise Wireless Networks) and ENWLSI (Implementing Cisco Enterprise Wireless Networks).

## Practical details

**Teaching methods**

Training in French (or English on request). Official course material in English.

## Course schedule

**( 1 )  Official program**

- Theory of radio waves (RF) and WLAN networks.
- WLAN mathematics and antennas.
- Wi-Fi operation.
- Basic WLAN security.
- Advanced WLAN security.
- WLAN security configuration.
- Cisco wireless network architecture.
- Implementing Cisco wireless networks.
- Wired support for Cisco wireless networks.
- Deploy Cisco centralized wireless networks.
- Configuring Cisco centralized wireless networks.
- Maintenance and troubleshooting of Cisco wireless networks.
- Manage and monitor Cisco wireless networks with Cisco DNA Center.

**( 2 )  Official practical work**

- Practical RF calculations.
- Antenna calculations.
- Exploring the Wi-Fi environment.
- Wireless frame analysis.
- Client access configuration.
- Deploying the Cisco 9800 WLC controller.
- Configuring the Cisco 9800 WLC controller.
- Maintenance of the Cisco 9800 WLC controller.

## Dates and locations

**REMOTE CLASS**
2026 : 29 June, 2 Nov.