Certified Wireless Network Administrator - CWNA (CWNA)

ID CWNA **Price** CHF 2,980.—(excl. VAT) **Duration** 4 days

Who should attend

Network administrators, IT technicians, wireless support personnel, and anyone looking to pursue a career in wireless networking.

This course is part of the following Certifications

Certified Wireless Network Administrator (CWNA)

Prerequisites

Students should have basic networking knowledge, including understanding of the OSI Reference model and IP subnetting, but no formal certification is required.

Course Objectives

After completing this course, the learner will be able to achieve these general goals:

- Introduction to 802.11 WLANs
- Fundamentals of Radio Frequency Technology
- Understanding International, Regional and Local RF Spectrum Management Organizations
- Basic Wi-Fi Analysis
- Coordination of 802.11 frame transfers
- RF Math and System Operating Span
- 802.11 Service Sets
- Challenges of 802.11n
- Wireless LAN operation
- Wi-Fi security
- Survey
- Antennas

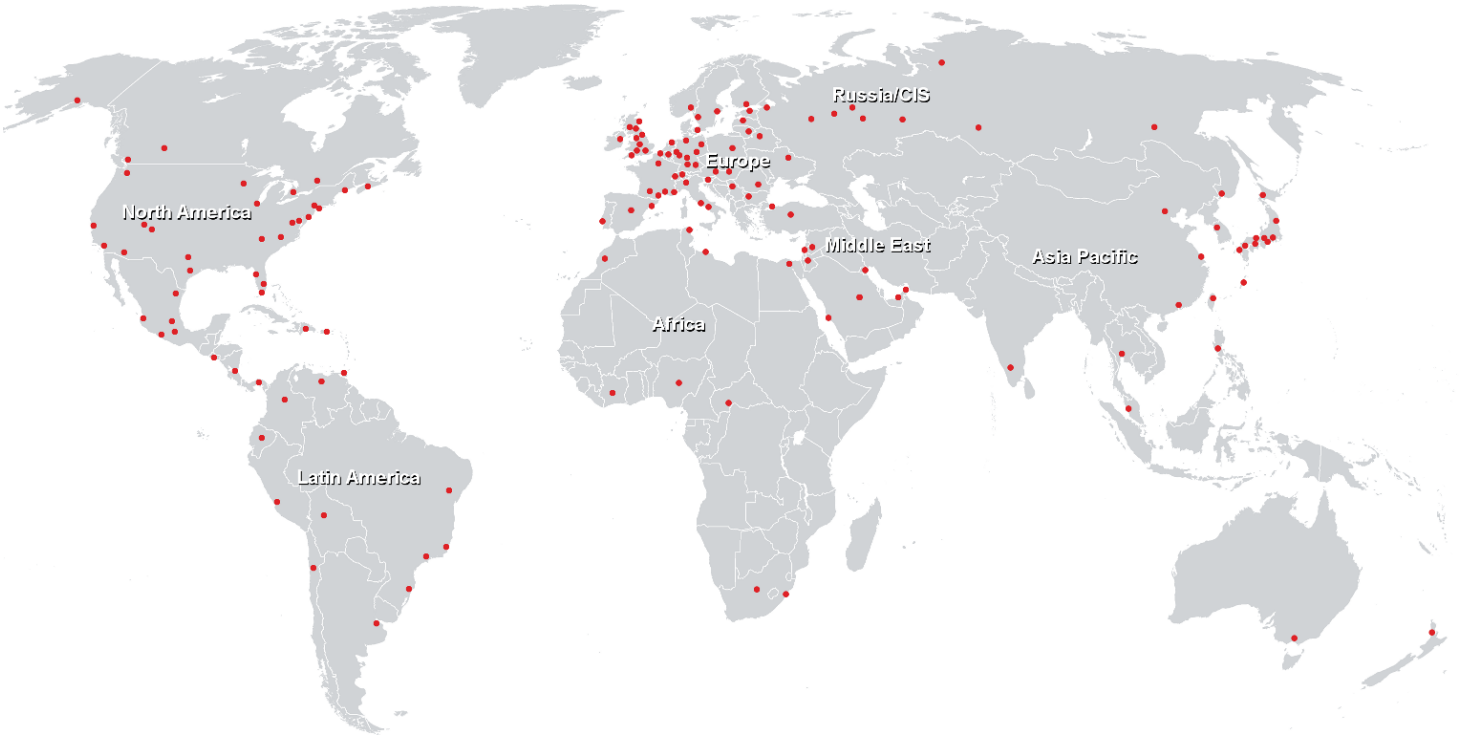
Course Content

The CWNA training covers all essential aspects of Wi-Fi technology, in particular:

- **Wi-Fi basics:** Understanding the basic concepts of WLANs, wireless technologies, and wireless standards (802.11)
- **Radio Frequency (RF) and Antenna Technology:** Introduction to how radio waves work, the importance of frequencies, signal strength, and antenna types, and how they affect network capacity and range
- **Wi-Fi architecture:** Learn the structure of a wireless network, including WLC, access points, tunneling methods, clients, different Wi-Fi topologies, and their design principles
- **Security in Wi-Fi:** Detailed consideration of security protocols such as WPA2, WPA3, and 802.1X, as well as strategies for securing wireless networks against unauthorized access
- **Wi-Fi planning and implementation:** Planning and implementation of WLAN networks, capacity planning and the selection of suitable devices and technologies
- **Troubleshooting and performance optimization:** Methods for diagnosing and resolving Wi-Fi issues, performance analysis, and network adjustments for a stable and efficient connection
- **Regulation and Compliance:** Understand the relevant regulations and standards that affect Wi-Fi installations, including legal requirements for wireless communications

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Training Centres worldwide





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