

KOENIG SOLUTIONS · COURSE OUTLINE

CWDP - Certified Wireless Design Professional

Learn to plan, survey, secure and validate enterprise WLAN designs across diverse industry and application scenarios.

1

MODULES

58

TOPICS

COURSE OVERVIEW

This course covers the wireless LAN design process, from pre-planning, customer interaction and requirements gathering through to documenting constraints and client and application types. It addresses design considerations for high-density environments, standard corporate networks and industry-specific deployments such as healthcare, education, retail and outdoor or mesh networks. It examines RF spectrum, behaviours, antennas, access point selection and powering, alongside site survey tools, preparation and both predictive and manual survey methods. It also covers quality of service, roaming, authentication, encryption, security best practices, intrusion prevention and the processes and tools used for network troubleshooting and validation.

WHO THIS COURSE IS FOR

Wireless Network Designers

Network Engineers

RF Engineers

Site Survey Specialists

Network Security Administrators

Network Troubleshooters

LEARNING OBJECTIVES

- Explain the WLAN design process and required design skills
- Identify client device types, application types and their design needs
- Apply design considerations for high-density and industry-specific networks
- Analyse RF spectrum, behaviours and modulation and coding schemes
- Compare antenna types and access point selection and powering options
- Plan and conduct predictive and manual site surveys
- Evaluate authentication, encryption and security best practices
- Assess network health using troubleshooting and validation tools

1 Module, 58 Topics

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WLAN Design Overview

TOPICS

- Importance of good design
- Impact of bad design
- Design process
- Design skills
- Design toolkit
- Pre-planning
- Customer interaction
- Requirements gathering
- Discovering existing systems

INDUSTRY-SPECIFIC DESIGNS

- Government
- Healthcare
- Hospitality
- Education
- Retail
- Public hotspots
- Defining vendor issues
- Operational planes
- Design models
- Understanding architecture differences
- RF spectrum
- RF behaviors
- Modulation and coding schemes
- RF accessories
- Throughput factors
- Antennas
- 802.11n and antennas
- Choosing APs
- Powering APs
- Site survey tools
- Site survey preparation

- Documenting the environment
- Defining constraints
- Creating documentation
- Client device types
- Application types
- Application-specific design
- High density design issues
- Standard corporate networks

- Transportation
- Mobile offices
- Outdoor and mesh
- Remote networks and branch offices
- Last-mile/ISP and bridging

- Predictive site surveys
- Manual site surveys
- Site survey principles and processes
- Quality of Service (QoS) overview
- QoS application points
- Roaming support
- Bad security
- Authentication solutions
- Encryption solutions
- Security best practices
- Intrusion prevention
- Network health status
- Troubleshooting and validation process
- Troubleshooting and validation tools
- Common problems

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

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