

Cisco 300-425 ENWLSD Exam Prep 2026

Cisco 300-425 ENWLSD 2026. Wireless design, site surveys, infrastructure, and mobility concepts.

[IT Certifications](#) Instructor: Jason Miller • 5 sections • 47 lessons • 14.50h total

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About this course

Preparing for the Cisco 300-425 ENWLSD exam can feel overwhelming with all the design scenarios and technical details. This course breaks down the official exam blueprint into manageable lessons, focusing on the practical skills you need to design Cisco enterprise wireless networks. We skip the fluff and focus on the core topics that show up on the test.

You will learn how to tackle site surveys, wired and wireless infrastructure design, and mobility concepts with step-by-step guides and real case studies. We will walk through downloadable templates for project planning and include problem-solving sessions for complex design requirements.

Course curriculum

Foundations and Exam Blueprint Overview

- **Decoding the 300-425 Exam Blueprint (14m)**
We break down the official Cisco exam sections so you know exactly what to study. Learn how to prioritize topics based on exam weight.
- **Essential Wireless Design Concepts (18m)**
Get a refresher on RF fundamentals and design constraints. This lesson sets the baseline for all your design decisions.
- **Setting Up Your Lab Environment (11m)**
Step-by-step guide to building a cost-effective lab using Cisco Packet Tracer and other virtual tools for practice.
- **Key Terminology You Must Know (9m)**
A quick reference guide to the acronyms and terms Cisco uses on the exam. Avoid getting tripped up by tricky wording.
- **Common Exam Pitfalls to Avoid (12m)**
Real case study analysis of common mistakes test-takers make. We show you how to spot and avoid them.
- **Project Scoping for Wireless Designs (16m)**
Learn how to gather requirements from clients like a pro. Includes a downloadable project scope checklist.
- **Introduction to Cisco DNA Center (13m)**
Understand the role of Cisco DNA Center in modern wireless design and how it impacts your exam scenarios.
- **Your Study Plan for Success (8m)**
A problem-solving session to build a personalized study schedule that fits your timeline and targets your weak spots.

Site Survey and Wireless Design Requirements

- **Planning Predictive Site Surveys (22m)**
How to use Ekahau or Cisco tools for predictive surveys. We walk through a real office layout to show you how it's done.
- **Post-Deployment Physical Surveys (25m)**
Learn the step-by-step process for validating your design after installation. Includes tips for measuring signal quality.
- **Antenna Types and Placement Strategies (19m)**
Deep dive into omni vs. directional antennas. We analyze real-world cases for warehouse and campus deployments.
- **Identifying Coverage Gaps and Interference (17m)**
Practical guide to spotting issues in survey data. Learn how to fix co-channel interference and dead zones.

- **Designing for High-Density Environments (28m)**
Problem-solving session on stadiums, conference centers, and lecture halls. We share a downloadable capacity planning template.
- **Wired and Wireless Infrastructure Design (21m)**
How to ensure your switching and cabling can support wireless traffic. Real case study on backhaul capacity.
- **Compliance and Security Constraints (15m)**
Integrating design with security policies and regulatory requirements. We'll show you how to document these for the exam.
- **Advanced Channel Planning (23m)**
Step-by-step guide to 2.4 GHz, 5 GHz, and 6 GHz channel selection. Includes a downloadable channel plan spreadsheet.
- **Troubleshooting Survey Tools (12m)**
Quick lesson on using Cisco's built-in tools to verify and debug your design in the field.

Enterprise Wireless Network Core Concepts

- **WLC Deployment Models Explained (20m)**
Compare converged, centralized, and FlexConnect architectures. We use diagrams to make it crystal clear.
- **Designing for Mobility Groups (18m)**
Learn how to configure mobility anchors and foreign controllers. Real scenario with a multi-building campus.
- **VLANs and Interface Groups (16m)**
Step-by-step guide to mapping VLANs to WLANs. Includes a downloadable VLAN planning template.
- **AP Placement and Power Requirements (14m)**
Practical tips for PoE budgets and mounting. We analyze a case where power issues caused design failures.
- **FlexConnect Remote Office Design (24m)**
Deep dive into designing for branch offices with local switching. Problem-solving session on authentication.
- **Mesh Network Design Basics (21m)**
When and how to use mesh APs. Real case study on outdoor deployments and backhaul planning.
- **WLAN Security Design Fundamentals (19m)**
Integrating WPA3, 802.1X, and guest policies. We'll show you how to design secure networks without complexity.
- **Client Roaming Optimization (17m)**
Learn to design for seamless roaming. Includes a downloadable checklist for 802.11r/k/v settings.

Advanced Design and Implementation

- **QoS for Wireless Networks (26m)**
Step-by-step guide to implementing QoS policies. Real case study on prioritizing voice and video traffic.

- **Designing for IoT and OT Devices (23m)**
How to accommodate non-standard devices. We analyze a manufacturing plant scenario with downloadable design tips.
- **High Availability and Redundancy (27m)**
Problem-solving session on SSO, N+1, and N+N redundancy. Includes real failure recovery case studies.
- **Location Services and CMX (22m)**
Designing for asset tracking and location analytics. Step-by-step with a retail store example.
- **Migrating from Legacy to New Designs (25m)**
Real-world migration strategies. We use a case study of upgrading an old 802.11n network to Wi-Fi 6E.
- **Integration with Cisco ISE (20m)**
How to design policy enforcement with ISE. Includes a downloadable policy mapping template.
- **Monitoring and Assurance Design (18m)**
Planning for ongoing monitoring with DNA Assurance. We'll show you what metrics to track post-deployment.
- **Advanced Troubleshooting Scenarios (32m)**
Deep dive into complex issues like client disconnects. Problem-solving session with real debug outputs.
- **Customizing Designs for Unique Needs (15m)**
How to adapt standard designs for healthcare or education. Real case study with downloadable customization guide.

Implementation, Review, and Next Steps

- **Final Design Review Checklist (12m)**
Downloadable template to validate your design against exam objectives. We walk through it step by step.
- **Mock Exam: Site Survey Scenarios (30m)**
Practice exam-style questions with detailed explanations. Learn how Cisco frames survey problems.
- **Mock Exam: Infrastructure and Mobility (29m)**
Another full practice session focusing on WLC and mobility design. Includes answer breakdowns.
- **Reviewing Your Weak Areas (16m)**
Problem-solving session: We help you create targeted revision plans based on mock exam results.
- **Time Management During the Exam (10m)**
Practical tips for pacing yourself. Real case analysis of how long typical scenarios take.
- **Exam Day Checklist (8m)**
What to bring, what to expect, and how to stay calm. Includes a downloadable exam day prep list.
- **Post-Exam: Certification and Beyond (13m)**
Next steps after passing. We discuss CCNP Wireless and how to apply these skills in real jobs.
- **Real-World Project: Complete Design (35m)**
Capstone lesson: Design a full enterprise network from scratch. Includes a downloadable project rubric for self-assessment.

- **Resources and Continued Learning** (9m)

Where to find updated Cisco docs and communities. We'll show you how to stay current beyond the exam.

- **Q&A: Common Exam Questions Answered** (24m)

We compile top student questions and solve them live. Real cases from previous test-takers.

- **Career Tips for Wireless Designers** (15m)

How to leverage your certification. Practical advice on resume building and job interviews.

- **Course Wrap-Up and Action Plan** (11m)

Final step-by-step guide to launch your exam prep. Includes a downloadable action plan template.

- **Bonus: Advanced Wi-Fi 6E Design Tips** (20m)

Exclusive lesson on 6 GHz planning. Real case study on deploying in high-performance environments.

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