



Conducting Cisco Unified Wireless Site Survey (642-732)

Exam Description: The Conducting Cisco Unified Wireless Site Survey (CUWSS) version 2.0 642-732 exam is a 75-minute test with 45–65 questions that are associated with the Cisco CCNP® Wireless certification. This exam assesses a candidate's ability to plan and conduct a wireless site survey, design the RF network, and conduct a post installation assessment to ensure compliance. The exam is closed book and no outside reference materials are allowed.

The following topics are general guidelines for the content likely to be included on the exam. However, other related topics may also appear on any specific delivery of the exam. In order to better reflect the contents of the exam and for clarity purposes, the guidelines below may change at any time without notice.

- 16%** **1.0** **Prepare for the Site Survey**
 - 1.1 Identify customer requirements
 - 1.1.a Business and RF application needs (voice, data, location)
 - 1.1.b Industry vertical
 - 1.1.c Customer questionnaire
 - 1.2 Identify customer facility requirements
 - 1.2.a Single floor
 - 1.2.b Multi floor
 - 1.2.c Campus (indoor and outdoor)
 - 1.2.d Warehouse
 - 1.2.e Obtain digital floor plans from customer
 - 1.3 Identify customer requirements for type of client devices
 - 1.4 Identify regulatory issues
 - 1.4.a Country codes (-e, -i, -a, -n)
 - 1.5 Identify safety and aesthetic considerations
 - 1.5.a NEC ratings
 - 1.5.b Fire codes
 - 1.5.c OSHA
 - 1.5.d MSHA
 - 1.5.e Site-specific hazard awareness
 - 1.6 Assess existing network infrastructure
 - 1.7 Assess logistical considerations
 - 1.7.a Resources

- 1.7.b Time
- 1.7.c Access
- 1.7.d Deployment requirements
- 1.8 Determine IEEE 802.11n impact on network infrastructure
- 16%** **2.0 Plan for the Site Survey**
- 2.1 Select proper survey model
 - 2.1.a Data
 - 2.1.b Voice
 - 2.1.c Video
 - 2.1.d Location
 - 2.1.e Bridging (point-to-point; point-to-multipoint)
 - 2.1.f Hybrid
- 2.2 Determine proper deployment characteristics
 - 2.2.a Dense deployment
 - 2.2.b Highly mobile (many cells, high reliability, and fast-moving clients) versus nomadic (temporary position)
 - 2.2.c Indoor and outdoor mesh
 - 2.2.d Use predictive Cisco WCS planning tools
- 2.3 Select survey equipment
- 2.4 Determine site survey best practices for customer environment
- 2.5 Identify impact of material attenuation
- 2.6 Identify survey documentation needed for customer report
- 30%** **3.0 Conduct the Site Survey**
- 3.1 Conduct a layer 1 survey (Cisco Spectrum Expert)
- 3.2 Select proper antenna to conduct the site survey
- 3.3 Conduct the layer 2 site survey for indoor environment
 - 3.3.a Select proper access point to conduct the site survey (use what is purchased)
 - 3.3.b Configure access point
 - 3.3.c Survey with proper client
 - 3.3.d Utilize proper survey techniques
- 3.4 Conduct the layer 2 site survey for outdoor point-to-point and point-to-multipoint networks
- 3.5 Conduct the layer 2 site survey for outdoor mesh network
- 12%** **4.0 Design the RF Network**
- 4.1 Determine infrastructure requirements

- 4.1.a AC power and PoE
- 4.1.b Understand cable plant considerations
- 4.1.c Mounting considerations: NEMA
- 4.1.d Outdoor grounding and lightning protection
- 4.1.e Rack capacity
- 4.1.f Switch port capacity

- 4.2 Determine the AP count and subsequent controller and license requirements
 - 4.2.a Autonomous versus controller-based deployment

- 4.3 Generate the WLAN design documentation
 - 4.3.a Indoor
 - 4.3.b Outdoor mesh
 - 4.3.c Outdoor point-to-point and multipoint

- 26%** **5.0 Conduct Post-Deployment Assessment**
 - 5.1 Verify RF coverage
 - 5.1.a Utilize tools (for example, air magnet) for audit
 - 5.1.b RRM, controller, network appliance tweaks

 - 5.2 Verify network applications and performance
 - 5.2.a Apply WCS tools (voice readiness, location readiness, site calibration)

 - 5.3 Reconcile any deployment issues

 - 5.4 Assemble and deliver installation report to customer