

Multiple Choice Exam Objectives

The following chart provides a breakdown of the questions within each knowledge domain

Knowledge Domain	Percentage
Floors Plans	20
Advanced Wi-Fi Design Scenarios	20
Ekahau Advanced Surveying	15
Wi-Fi Analysis	20
Ekahau Reporting	15
Ekahau API Integrations	5
Spectrum Analysis	5

Floor Plans - 20%

- Explain characteristics of different image file types
 - + Compression
 - + File size
- Identify and list features available in image tools
 - + Colour adjustment
 - + Resolution
 - + Rotation
 - + Crop
 - + Stitching

Advanced Wi-Fi Design Scenarios - 20%

- Define Wi-Fi requirements
 - + Business requirements
 - + Technical requirements
 - + RF requirements
 - + LCMI

- Identify and explain unique characteristics from different venues
 - + Capacity
 - + Indoor vs Outdoor
 - + Redundancy
 - + Roaming
 - + Antenna selection
 - + Cable considerations
 - + Power considerations
- Location Services
 - + Wi-Fi, BLE, and UWB

Ekahau Advanced Surveying - 15%

- Demonstrate ability to analyze survey & live 802.11 data
 - + Analyzing survey data with Ekahau AI Pro Online (AIPO)
 - + Analyzing survey data with Ekahau Survey
 - + Analyzing survey data with Ekahau Insights
 - + Analyzing live RF conditions with Ekahau Analyzer and the Sidekick 2

- Understand how to use offsets
 - + Device Offsets
- Understand how to use APoS
- Understand how to measure wall attenuation
- Analyze survey results
 - + Ekahau AI Pro Online
 - + Ekahau Survey App
 - + Ekahau Analyzer App

Wi-Fi Analysis - 20%

- Demonstrate ability to analyze survey & live 802.11 data
 - + Analyzing survey data with Ekahau AI Pro Online (AIPO)
 - + Analyzing survey data with Ekahau Survey
 - + Analyzing real time data with Ekahau Analyzer
 - + Analyzing live RF conditions with Ekahau Analyzer and the Sidekick 2
- Understand how to use offsets
 - + Device Offsets
- Explain various Wi-Fi security options & amendments
 - + Open, WPA, WPA2, WPA3, SAE, and Enhanced Open
 - + 802.11w or MFP
- Analyze data collected using
 - + Ekahau AI Pro Online (AIPO)
 - + Ekahau Survey App
 - + Ekahau Analyzer App

- ✔ Explain roaming in Wi-Fi
 - + Roaming analysis in packet decodes
 - + Roaming amendments - 802.11r, k & v
 - + Roaming analysis with Ekahau AI Pro Online (AIPO)

Ekahau Reporting - 15%

- ✔ Understand how & where to capture
 - + Ekahau Analyzer app
 - + Sidekick 2
- ✔ Explain OSI model and encapsulation
 - + OSI Model
 - + Encapsulation

- ✔ Explain WLAN discovery process
 - + 2.4 GHz & 5 GHz BSS Discovery
 - + 6 GHz BSS Discovery
 - + TBTT & Beacon Overhead

Ekahau API Integrations - 5%

- ✔ Explain API integration
 - + Data permissions
 - + Association Analysis
- ✔ Explain types of API integration
 - + Provisioning, Configuration, and Live Monitoring

Spectrum Analysis - 5%

- ✔ Demonstrate ability to analyze spectrum data
 - + Receiver Sensitivity
 - + Types of RF interferes
 - + Analysing live and historic RF conditions with Ekahau AI Pro, AIPO, and the Sidekick 2
 - + Analysing live RF conditions with Ekahau Analyzer and the Sidekick 2
- + Channel utilization reported by spectrum analyzer
- + Channel utilization reported by a Wi-Fi network card
- + Density vs Waterfall views