



09:00 - 10:30

- Introductions
- Ekahau Connect & Product Family
- Ekahau Guide to Awesome Wi-Fi: Design
- Wi-Fi Timeline
- RF Fundamentals

- Gathering Requirements
- Design Group Exercise
- Ekahau AI Pro Desktop Design Demo

- Ekahau Guide to Awesome Wi-Fi: Optimization
- How to Use and Validate with Sidekick 2
- Types of Wi-Fi Surveys
- Types of Survey Data Collection

- Wi-Fi Troubleshooting Theory
- How to Perform Wi-Fi Packet Captures: Theory
- How to Perform Wi-Fi Packet Captures: Demo
- Ekahau Reporting

10:30 - 10:45

BREAK

10:45 - 12:30

- Modulations
- Wi-Fi MCS Rates
- Wi-Fi Channels
2.4 GHz
5 GHz
6 GHz

- Intro to Ekahau AI Pro Desktop - American Football Field
- Small Office Design
- CAD Import
- Education: Universities Dorm Rooms Design

- Passive vs Active Wi-Fi Surveys
- Ekahau's Tips for Accurate Wi-Fi Surveys
- Ekahau Just Go Survey
- Survey Exercise

- Tools you Need to Succeed as a Wi-Fi Engineer
- Spectrum Analysis Theory
- Spectrum Analysis Demo

12:30 - 13:15

LUNCH

13:15 - 15:00

- Inverse Square Law
- Free Space Path Loss
- Association Process
- Roaming in Wi-Fi

- Antenna Fundamentals
- How to Design: Warehouses
- Large Office Design - Coverage
- Large Office Design - Capacity

- Ekahau AI Pro Online
- How to Plan Changes to an Existing Network
- How to Simulate Rip and Replace Scenarios
- How to Design a New Network Based on Measured Survey Data

- ECSE Design Exam Review
- ECSE Design Practical Exam

15:00 - 15:15

BREAK

15:15 - 17:00

- Channel Contention
- Capacity Planning
- Contention Process
- Wi-Fi Security - Identify and Remove Interferers
- Wi-Fi Security - Encryption
- Client Devices: Least Capable, Most Important Device (LCMI)

- 3D Building: How to Design for Multiple Floors
- Ekahau AI Pro Desktop Auto-Planner

- Ekahau and AP Vendor Integrations: Zero Touch Provisioning
- Ekahau Insights Analysing Survey Data - Ekahau AI Pro
- Analysing Survey Data - Ekahau Optimizer

- ECSE Design Multiple Choice Exam