

# Ekahau Certified Survey Engineer - ECSE

Ekahau Certified  
**ECSE**  
Survey Engineer

## Wi-Fi Expert Training and Certification

The Ekahau Certified Survey Engineer (ECSE) course provides instructor-led classroom lectures and intensive hands-on labs on all aspects of Wi-Fi life cycle management. After the course, students will take the ECSE certification exam.

## Audience

This course and certification are designed for Wi-Fi systems engineers, IT administrators, and others working with Wi-Fi, who require an in-depth knowledge on how to deploy and maintain Wi-Fi networks using Ekahau Wi-Fi tools.

## Course Objectives

At the end of this course the student will hold expert knowledge in designing, deploying and troubleshooting Wi-Fi networks, using Ekahau Wi-Fi tools. The knowledge applies to all Wi-Fi network brands. A certification exam will be held at the end of the course.

## Prerequisites

Students are expected to have the following skills & knowledge before attending this course:

- Basics of networking
- Strong general computer skills
- CWNA recommended (Not required)
- Windows laptop with Admin rights for installing software
- Some exercises will work better with a mouse

## Agenda

### Day 1

- How a NIC Works
- Radio Frequency (RF) Fundamentals
- Modulations
- dB Math
- Antenna Fundamentals
- 802.11 Fundamentals
- Association Contention Vocabulary

### Day 2

- WLAN Requirements
- ESS Design Demonstration
- Examples & Exercises

### Day 3

- Examples & Exercises
- Rules for Accurate Site Surveys
- Analyzing Survey Results
- Visualizations & ESS Options
- Active vs. Passive Throughput Surveys

### Day 4

- AP on a Stick Surveys
- ESS Reporting Features
- Spectrum Analysis using Ekahau Sidekick™ Frequency Monitor
- Survey Inspector & Troubleshooting
- Review & Exam

## Information & Registration

For schedules, locations and additional information, visit [ekahau.com/training](http://ekahau.com/training). **Ekahau Certified Survey Engineer courses and certifications are developed and provided solely by Ekahau, Inc.**

# Our Trainers

## **Keith R. Parsons**, Managing Director, WLAN Pros, CWNE #3

Keith has been teaching and designing Wi-Fi networks for 16 years. More than 3,000 engineers have learned how to apply RF principles and design methodologies to improve their WLANs from him.

## **Blake Krone**, Mobility Consultant, CWNE #152

Blake is an industry expert helping organizations and individuals become proficient with the hardware and software tools needed to be Mobility Architects.

## **Ferney Muñoz Vergar**, Canyons School District, CWNE #187

Ferney has been working with technology for 27 years, 17 of them in networking and 10 years dealing with wireless networks.

## **René Kriedemann**, 2NDWAVE WLAN consulting

René has been using Ekahau tools from the very beginning. During the last 15 years, René has been planning and analyzing millions of square meters of wireless infrastructures. His classes are taught in German.

## **François Vergès**, Owner of SemFio Networks, CWNE #180

François dedicates all his time to designing, deploying, troubleshooting and teaching Wi-Fi. His classes are taught in French and English.

## **Eddie Forero**, Founder and CEO of CommunicaONE Inc., CWNE #160

Eddie specializes in survey, analysis and design. He has implemented WLANs throughout the United States and brings practical knowledge and experience to his ECSE classes.

## **Timo Sass**, Manager Professional Services

Timo has designed, installed, and supported global wireless LAN installations for over 10 years. In addition, he deploys and troubleshoots ruggedized mobile devices, which provides him with a good view of both sides of the Wi-Fi.

## **Troy Martin**

Troy is a Wi-Fi expert with over 20 years of networking industry experience, 10 years of which were spent teaching and deploying Wi-Fi. He is dedicated to bringing the science of Wi-Fi to each network.

## **Phil Morgan**

Phil is a 25-year networking veteran, and has been working with wireless from its foundation. Phil holds multiple Cisco CCIE and CCNP level certifications along with additional vendor-neutral accreditations.

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