

# COURSE OUTLINE: Extreme Wireless Best Practice



## ASSOCIATED CERTIFICATIONS

Extreme Wireless  
Best Practice



## COURSE DURATION

1 Day

[REGISTER](#)



## DELIVERY METHOD

Instructor-Led: In-person and virtual training sessions, both with hands-on lab activities.

On-Demand: Flexible, self-paced learning without hands-on lab activities.

## COURSE OVERVIEW

Extreme Networks Wireless Best Practices explores proven strategies for designing, deploying, and managing high-performance Wi-Fi networks across diverse environments. This course follows a systematic approach, guiding you through the evolution of Wi-Fi, critical design principles, and advanced features that ensure enterprise-grade reliability and scalability.

You will gain practical insight into spectrum planning, radio profiles, and environment-specific design, while learning how to avoid common pitfalls that often undermine wireless performance. Along the way, we'll highlight why wireless strategy has become a leadership priority and how you can align design choices with organizational expectations.

## WHO SHOULD ATTEND

Professional Service Engineers and anyone responsible for implementing Extreme Networks WiFi solutions.

## MANDATORY PRE-REQUISITE:

Designed for those who understand the fundamentals of Extreme Networks Wi-Fi through work experience or by attending the Extreme Certified Professional training track on ExtremeCloud IQ - Controller or ExtremeWireless Cloud

## COURSE OBJECTIVES

- Understand the Wi-Fi Landscape
- Plan and Design for Success
- Develop a Spectrum & Radio Strategy with best practices for 2.4, 5, and 6 GHz bands
- Implement Advanced Features in the radio profile
- Apply Checklists & Avoid Pitfalls
- Troubleshoot with Confidence
- Leverage Resources

# AGENDA

## Introduction

- Course goals and objectives
- Agenda overview

## Wireless in Context

- Wi-Fi as critical infrastructure
- The “Great Expectation Shift”
- Why wireless strategy is a leadership priority
- Wireless Fundamentals
- Evolution of Wi-Fi
- Modulation, throughput, and airtime
- QAM, RSSI vs. SNR, Device diversity and client awareness
- Antenna/stream configs (4x4:4, 8x8:8, etc.)

## Planning for Success

- Key design questions
- Coverage, capacity, wiring, validation requirements

## Site Surveys & Predictive Planning

- Predictive vs. validation surveys
- Environmental impacts
- Best practices for documentation and validation

## Design Best Practices by Environment

- Warehouses
- Office buildings
- Primary/Secondary Schools
- Universities and Colleges

## Spectrum Strategy

- Co-channel and adjacent-channel interference
- DFS usage
- Airtime as the bottleneck
- Best practices for channel planning & SSID management

## Access Point Installation

- General principles (height, placement, interference)

- Cabling, PoE, compliance
- Environment-specific guidance

## Radio Profiles & Templates

- Template best practices
- 2.4 GHz best practices
- 5 GHz best practices
- 6 GHz best practices

## Advanced Features

- Client load balancing (when to use / avoid)
- Band steering strategies
- Radio load balancing (dual 5 GHz)
- Weak signal probe suppression

## Checklists

- The Wi-Fi Guru story
- Why checklists matter
- Top 25 items for Great Wi-Fi

## Common Pitfalls

- Hiding APs above ceilings
- Leaving low data rates enabled
- Over-deploying APs without planning

## Troubleshooting

- Methodology and skills
- 50/50 diagnostic approach
- 802.1X troubleshooting with RADIUS
- Enhanced packet capture

## Resources

- Extreme AI Expert and automation
- Professional Services
- Key weblinks, documentation, portals
- Industry resources



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