

ECSE Design Course Agenda

	Day 1	Day 2	Day 3	Day 4
9:00 - 10:30	 Introductions Ekahau Connect & Product Family Ekahau Guide to Awesome Wi-Fi Intro to Optimizer Wi-Fi Timeline RF Fundamentals 	Gathering RequirementsGroup Exercise ReviewGroup AssignmentEkahau Al Pro Design Demonstration	 Outdoor Design Validate with Sidekick Different Types of Wi-Fi Surveys Types of Survey Data Collection 	 Wi-Fi Troubleshooting Theory Ekahau Capture Ekahau Al Pro Reporting
10:30 - 10:45		Bro	eak	
10:45 - 12:30	 Modulations Spread Spectrum Wi-Fi Channels 2.4 GHz 5 GHz 6 GHz 	American Football FieldSmall Office DesignUniversity Dorm Rooms Design	 Passive vs. Active Wi-Fi Site Surveys Ekahau's 6 Steps for Accurate Wi-Fi Site Surveys Survey Exercise Zero-Touch Provisioning Ekahau Optimizer 	 Tools you Need to Succeed as a Wi-Fi Engineer Spectrum Analysis Theory Spectrum Analysis Demo
12:30 - 13:15		Lui	nch	
13:15 - 15:00	Inverse Square LawFree Space Path LossdB Math802.11 FundamentalsAssociation Process	 Antenna Fundamentals Warehouse Design Large Office Design - Coverage Large Office Design - Capacity 	Ekahau InsightsEkahau Auto Wall CalibrationNetwork Simulator	 ECSE Design Exam Review ECSE Design Practical Exam
15:00 - 15:15		Bro	eak	
15:15 - 17:00	 Roaming in Wi-Fi Channel Contention Capacity Planning Contention Process Wi-Fi Security Least Capable, Most Important Device 	 3D Building: Designing for Multiple Floors Human vs. Machine: Al Auto-Planner 	 Health Checks Analyzing Survey Data Troubleshooting Exercise Ekahau Al Pro Troubleshooting Exercise Ekahau Survey App 	ECSE Design Multiple Choice Exam

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