

## **ECSE** Design



## Agenda

Time	Day 1	Day 2	Day 3	Day 4
9:00 - 10:30	<ul><li>Introductions</li><li>How a NIC Works</li><li>RF Fundamentals</li></ul>	<ul><li>Day 1 Review</li><li>WLAN Requirements</li><li>Medical Clinic Group Assignment</li></ul>	<ul><li>Designing for Multiple Floors Exercise</li><li>Auto-Planner Exercise</li></ul>	<ul><li>AP on a Stick Surveys</li><li>Ekahau Pro Reporting Features</li></ul>
10:30 - 10:45		Bre	eak	
10:45 - 12:30	<ul><li>RF Fundamentals</li><li>Modulations</li><li>dB Math</li></ul>	<ul> <li>Medical Clinic Group Assignment</li> <li>Ekahau Pro Design Demonstration Using Medical Clinic - Sensitivity Analysis</li> </ul>	<ul> <li>Designing for Capacity         Exercise</li> <li>Outdoor Designs         Exercise</li> <li>Measuring Wall/Area RF         Attenuation Exercise</li> </ul>	<ul> <li>Spectrum Analysis         using Ekahau         Sidekick Demo &amp;         Exercise</li> <li>Frequency Monitor</li> <li>Survey Inspector &amp;         Troubleshooting</li> </ul>
12:30 - 13:15	Lunch			
13:15 - 15:00	<ul><li>Antenna Fundamentals</li><li>802.11 Fundamentals</li></ul>	<ul> <li>Install Ekahau Pro</li> <li>Football Field Exercise</li> <li>Drawing Walls Exercise</li> <li>CAD Import Exercise</li> <li>K-12 Design Exercise</li> </ul>	<ul> <li>Rules for Accurate Site Surveys</li> <li>Validation Survey iPad &amp; Ekahau Connect Exercise</li> </ul>	<ul><li>ECSE Exam Review</li><li>ECSE Exam</li></ul>
15:00 - 15:15		Break		
15:15 - 17:00	<ul><li>Association</li><li>Contention</li><li>Vocabulary</li></ul>	<ul> <li>Small Warehouse         Exercise</li> <li>Large Warehouse         Exercise</li> <li>Cube Farm Exercise</li> <li>Scaling Exercise</li> </ul>	<ul> <li>Analyzing Survey Results</li> <li>Reviewing all         Visualizations &amp; Ekahau         Pro Options</li> <li>Active vs. Passive         Throughput Surveys</li> </ul>	
Homework	Explain:     "Green Diamond"     "The Game"     "Antenna Rule"	Do team Medical Clinic Design in Ekahau Pro, then redo to meet all requirements	<ul><li>Read White Papers</li><li>Review for Exam</li><li>Review Vocabulary</li></ul>	Additional Online Video Modules:  GPS Surveys  Custom Reporting APoS Gear  Modulations Review