

ECSE Troubleshooting



Agenda

Time	Day 1	Day 2	Day 3	Day 4
9:00 - 10:30	<ul style="list-style-type: none"> Introduction Course Overview Troubleshooting Process Fundamentals How a NIC works 	<ul style="list-style-type: none"> Setting Wireless LAN Requirements Wired vs Wireless Issues 	<ul style="list-style-type: none"> How to Perform Accurate Validation Surveys Ekahau Survey Lab Validation Survey Lab 	<ul style="list-style-type: none"> Using WLANpi for Remote Packet Capture Exercise Soft Skills in Troubleshooting Wireless LANS Soft Skills in Troubleshooting Lab Exercises
10:30 - 10:45	Break			
10:45 - 12:30	<ul style="list-style-type: none"> Wholistic view of Wireless LAN Troubleshooting Wifi Clients RF Fundamentals 	<ul style="list-style-type: none"> How to Make Wireless Problems Disappear <ul style="list-style-type: none"> Netool.IO Lab Wired vs Wireless Discussion Determind Wired vs Wireless Demo & Lab Exercises 	<ul style="list-style-type: none"> Analyzing Validation Surveys Spectrum Analysis Introduction Sidekick Analysis Demo Tracking Non-Wi-Fi Interference 	<ul style="list-style-type: none"> Management Systems Tools to Troubleshoot Management Lab Exercises Troubleshooting Tools Review by OS
12:30 - 13:15	Lunch			
13:15 - 15:00	<ul style="list-style-type: none"> Contention Process Association Process Authentication Process 	<ul style="list-style-type: none"> Investigate Using Wi-Fi Scanners Using Ekahau RTFM Scanner WLAN Pi Installation Lab HORST, BetterCap, Kismet Lab 	<ul style="list-style-type: none"> Interrogate / Introduction to Wireshark Customizing Wireshark Profiles Lab Columns Lab Filters Lab Color Rules Lab 	<ul style="list-style-type: none"> ECSE Exam Review ECSE Exam <ul style="list-style-type: none"> Lab-Based Exam 6 / 20-minute rotating modules Work Through Live WLAN Issues Capture & Report Results - Graded Exam
15:00 - 15:15	Break			
15:15 - 17:00	<ul style="list-style-type: none"> Upper Layers DHCP DNS 802.1X/RADIUS App Services Firewalls WAN Router End to End QoS 	<ul style="list-style-type: none"> WLAN Client Profiler Lab Measure Performance & Throughput Testing, iPerf, HTML 	<ul style="list-style-type: none"> Name Resolution Lab Commenting Lab Using Class Profile Graphing Lab 	