

EMC Essentials – Theory & Troubleshooting

Two-Day Short Course: Tuesday, September 12 – Wednesday, September 13, 2017 | NTS Longmont

Registration for this class is open June 25, 2017 – August 25, 2017

Learn how to design electronic products to comply with electromagnetic compatibility (EMC) requirements!

Early bird discount of \$200/attendee if payment is received by August 12th

Companies sending more than one person can also receive the \$200 discount for each additional attendee

If you're familiar with this short course offered by NTS you know that it is a unique blend of theory, application and demonstration. Besides the excellent book, *EMI Troubleshooting Cookbook for Product Designers*, you'll have the option to purchase the excellent textbook from Würth Electronics: *Trilogy of Magnetics*, at a discount. A special module has been added to course materials, which discusses some examples from the book. In addition, Würth and other vendors will be demonstrating their latest EMC-related instruments and filter components.

This is a two-day course, and the curriculum is broken down as follows:

EMC Theory (Part 1)

Tuesday, September 12, 2017

Attendees will be introduced to basic EMC theory; units of measurement, time and frequency domain, differential and common mode currents, radiated emissions, PC board layout, shielding, transmission lines and magnetics. Day one is crucial to understanding the day two presentation, as it will also include demonstrations of many of the basic product design principles.

EMC Theory (Part 2) + Bench Top EMI Measurements and Troubleshooting

Wednesday, September 13, 2017

We'll continue with ESD and system design, followed up with practical, low-cost, tools and techniques that can be used for pre-compliance measurements as well as troubleshooting EMC problems in a more formal setting. We'll demonstrate several probing and analysis techniques that will help identify EMC issues quickly. *Several actual case studies will also be described.*

Who is this course for?

This course is a must for technicians, engineers, managers, or anyone tasked with the job of getting a product through EMC compliance testing.

Contact Information

To Reserve Your Seat

Please contact Marie Oster
(720) 745-6002 or marie.oster@nts.com

Course Information and Details (e.g., materials, etc.)

Please contact Kenneth Wyatt
(719) 310-5418 or ken@emc-seminars.com

Course Details

Registration Fee

\$1,295 per person

Location

NTS Longmont
1601 Dry Creek Drive, Suite 2000
Longmont, CO 80503
(303) 776-7249

What's included:

- Hard copy of course materials
- Copy of Ken Wyatt's *EMI Troubleshooting Cookbook for Product Designers*
- Discounted ferrite sample kit from Würth Electronics and other vendor gifts
- Snacks, refreshments, and lunch will be provided both days

About the Instructor



Kenneth Wyatt

Mr. Kenneth Wyatt, is an expert in the field of EMI/EMC. He has over 30 years experience in the field, and has been responsible for taking numerous products, both commercial and military, through design compliance testing. Ken understands not only the techniques of good EMC design, but also the nuances of troubleshooting elusive EMC problems.

He has published numerous articles for magazines including EE Times, Microwave Journal, EDN, Interference Technology, and InCompliance and has presented his EMC courses worldwide. He authored "The EMC Blog" at EDN.com for three years, coauthored the book, *EMI Troubleshooting Cookbook for Product Designers*, and is currently the senior technical editor for Interference Technology Magazine.

Testimonials

"I really thought you did a great job teaching us about ESD issues last month. I told my boss that your seminar was the best I have attended to date." Dave H.

"Good info on general theory – provides a nice point-of-entry for the beginner."

"The best part of the course was the troubleshooting methods and equipment."

"Good course with lots of info!"

"Loved the practical tips and tricks; especially the troubleshooting tips."

"Great review of concepts. I liked the sharing of the EMI kit and the troubleshooting techniques."

"The demonstrations and the DIY tips for building and using your own testing equipment were the best part for me."

"The instructor was good...very helpful!"

"The demos really bring ideas to light and the troubleshooting tips were very enlightening. Overall the course was very good."



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