



2011 Wireless and EMC Training Seminar Program

ACB
Europe, USA, Asia

Regulatory and Technology Method Compliance to the Rules of: FCC, Industry Canada and the R&TTE Directive

Presented by ACB

Dennis Ward, Regulatory Engineer, Director of Engineering
Michael Derby, Regulatory Engineer, Director of Training

Training Session options:

Comprehensive instruction;

Radio, EMC, Regulatory, Compliance and Test engineers at the following locations:

16 and 17 June 2011:	Helsinki, Finland	(new seminar format)
20 and 21 June 2011:	Fleet, United Kingdom	(new seminar format)
23 and 24 June 2011:	Malaga, Spain	(original seminar format)
28 and 29 June 2011:	Bochum, Germany	(original seminar format)

The Seminar

Join ACB for a comprehensive overview of methods and requirements for EMC and Radio Regulations. The seminars will cover methods of evaluation and certification requirements for equipment with demands for EMC and radio compliance, with specific focus on radio regulation compliance. Included is an update on the recent TCB Council and FCC Training.

- Learn the latest FCC and Industry Canada Rules and Regulations
- Hear from the experts on FCC and IC interpretations
- Understand the requirements of the R&TTE Directive and discuss recent activity
- Interact and exchange with your colleagues in the industry

SPECIAL FEATURES: Updates from the FCC, IC, TCB Council, R&TTECA and ECANB

The training will feature critical updates on regulations and policies from the FCC, IC and TCB Council training workshop. The training will also feature updates from the latest R&TTE and EMC Notified Body group meetings.

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About the Seminars, which location to attend?

In 2010, ACB ran a series of training seminars in Europe for people involved with compliance and certification for North America or Europe. The training courses were very successful and ACB has received many calls for repeat training in 2011. Here are the details of this year's courses.

In 2011, we plan to run two different types of seminar:

We shall re-run an updated version of last year's presentation, which proved to be so successful. This 'original format' seminar was originally designed as an overview to the requirements but we found that it was also very useful to seasoned certification applicants and experienced compliance managers. This seminar is therefore designed for anyone who missed last year's seminar or would like a refresher course with updates. All slides have been updated to include the latest developments and changes in requirements. This seminar will be presented in **Spain (23-24 June)** and **Germany (28-29 June)**.

In addition, we shall run a new seminar. This 'new format' seminar is designed as a sequel to last year's and aimed at anyone who attended the 2010 seminar or who already has some experience with FCC and IC Certifications or the R&TTE Directive. Of course, anyone new to the industry is welcome too and it will be a good opportunity to leap into the deep end! There will be plenty of help on hand to answer questions. This seminar will be presented in **Finland (16-17 June)** and **United Kingdom (20-21 June)**.

For all seminars, we found the question and answer sessions to be very useful for attendees.

This year's presentations will also branch out of the North American and European markets to cover other International compliance issues with a specific presentation on Japanese approvals.

Who Should Attend

Engineers, program managers, test technicians and regulatory personnel working in EMC, Radio and telecommunications testing and Regulatory Compliance for North America and Europe.

Test, design and development engineers and technicians will benefit from receiving the latest in critical updates on test methodology from practicing experts **Dennis Ward** and **Michael Derby**.

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Techniques and Methods: As technologies evolve, measurement and certification of devices are constantly evolving and creating challenges for the electronics industry. Keeping abreast of these changes and the nuances of the regulations is critical for speeding electronic and radio products' time-to-market. Fierce competition from rival developers and test labs creates additional pressure to design and test the devices for compliance with the regulatory requirements and getting it right the first time.

The Changing Spectrum: New services are being allocated in the US and Canada as the demand for higher speed and multi-point access to information pushes developers to create highly integrated products. Broadband modulation techniques cram more bits-per-hertz into the allocated spectrum.

Co-Location and Multiple Transmitters: It is increasingly common to find multiple-transmitter devices; the challenge to certify these devices creates issues dealing with co-located radios, radiation hazards, electromagnetic compatibility (EMC) and certification strategies.

Confidence and Experience: Our Lecturers have a wealth of experience and information in the field of product testing and certification and will share their perspective and insight on the regulations and evolving requirements for electronic and radio frequency systems. The goal of this seminar is to present the latest information on the evolving requirements and to give attendees better understanding of the processes and procedures for approving equipment.

Seminar Overview

Specific topics include:

- FCC rules and regulations overview
- TCB applications and certifications
- FCC submissions from a Laboratory perspective
- Modular Approvals and integration of modules
- Co-location of transmitter devices
- Modifications and Permissive Changes
- RF Exposure for Mobile and Portable devices (SAR and MPE)
- The FCC's KDB (Knowledge Database) system
- The FCC PBA (Permit But Ask) system
- Notified Body opinions
- Updates from TCB Council workshop in Baltimore, April 2011 and the latest requirements and changes from FCC and IC.
- Updates from the R&TTECA and ECANB in Lyon, May 2011 and the latest changes in Europe.

Please see the individual agendas for each location to see the exact topics planned for each seminar.

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Expert Instruction

Dennis Ward is the senior applications examiner and Technical Director for ACB in the USA. He has been involved in many aspects of EMC, wireless and product conformance for over 30 years. He has worked as an EMC test engineer and Director of Laboratories for CKC Laboratories. He has consulted on numerous products for world-wide approval, including cellular, 3G, Wi-Fi, Spread Spectrum, Digital Transmission Systems, Wireless Access Points, and numerous licensed and unlicensed products. He has performed certification review for conformance with Specific Absorption Rate (SAR) requirements and radiation hazards. Mr. Ward has been directly responsible for accreditation issues and activities supporting Telecommunications Certification Bodies, accreditation to ISO Guide 65 and ISO Guide 17025. Mr. Ward is an EMC and ESD NARTE-Accredited Test Laboratory Engineer.

Michael Derby is a regulatory review engineer and responsible for operations in ACB in Europe. He has been involved in many aspects of EMC and Radio compliance for over 20 years. He has worked as an EMC and Radio test engineer and has been Leader of a Radio test laboratory. Michael has been an active member of ETSI and contributed to the creation of EN standards. He is now a Notified Body for the R&TTE and EMC Directives, a TCB for the FCC and an FCB for Industry Canada. He presently contributes to the TCB Council and the R&TTCA, providing liaison services between these two organizations. Michael sits on the TCB Council Board of Directors. In addition to being a regulatory review engineer and technical advisor, Michael is also ACB's Director of Training.

Seminar Partners

Rohde & Schwarz: Demonstrations and Technical explanations of measurement techniques

Our UK and Finland seminars are being held at the offices of Rohde & Schwarz.

Rohde & Schwarz engineers will be present with their latest test equipment, to explain and demonstrate measurement techniques and to help explain the intricacies of Radio and EMC measurements.

AT4Wireless: Demonstrations and Technical explanations of measurement techniques

Our Spain seminar is being held at the AT4Wireless test laboratory.

AT4Wireless will bring their expertise to this seminar and engineers will be on hand to help with testing, test equipment and International Approvals requirements.

Novero: International Compliance through the experiences of a Manufacturer

Our Germany seminar is being held at the offices of Novero GmbH.

As a manufacturer of equipment requiring Radio and EMC regulatory compliance, Novero will provide expertise and share experiences on testing, certification and approvals in the global markets.

Please refer to the end of this document for a detailed description of each partner company

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Locations:

- 16 and 17 June 2011:** Rohde & Schwarz Finland Oy
Taivaltie 5,
01610 Vantaa,
Finland
- 20 and 21 June 2011:** Rohde & Schwarz UK Ltd.
Ancells Business Park, Fleet,
Hampshire, GU51 2UZ,
United Kingdom
- 23 and 24 June 2011:** AT4 wireless, S.A. (HQ)
Parque Tecnológico de Andalucía
C/ Severo Ochoa, 2
29590 Malaga
Spain
- 28 and 29 June 2011:** Novero GmbH
Meesmannstrasse 103
44807 Bochum
Germany

Cost

Fees are for two days of educational instruction. Meals and refreshments are included.
All fees are quoted in Euros. **Deals are available for early bookings and group bookings.**

Attendance, bookings made on or before 31 May 2011:

€ 295 per person when booking before 31 May 2011.

Attendance, bookings made after 31 May 2011:

€ 325 per person when booking before 31 May 2011.

DISCOUNTS!

Discounted fees are available for two or more bookings from the same organization.
Second and subsequent attendees: 20% discount.

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Testimonials

We were very proud of the group dynamic and exciting discussions at our 2010 seminars. Here is a short list of some of the feedback we received after the courses:

"The best compliance seminar I have ever attended."

"One of the more lively and interactive seminars I have been to."

"Very impressed by the depth and breadth of questions presenters were able to answer on the fly."

"Excellent value, well worthwhile."

"I have already used my newfound knowledge in anger."

"It's obvious from the ease of presentations that you have a clear understanding of the rules and regulations, which is essential when working closely with the manufacturer."

"Mike & Dennis – all I can say is job well done. It has certainly raised the profile of ACB. I will definitely recommend this course to other colleagues."

"I can now read the FCC regs and make more sense of them."

"I specifically noted that verbally you both were good when talking foreign people. Not too fast and not too many odd words."

"It's just rare to find a good seminar that is so specific to what I do. Brilliant all around!"

"Two excellent and knowledgeable presenters. Well done Dennis and Michael."

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About our Seminar Partners

Rohde & Schwarz:

Rohde & Schwarz has stood for quality and innovation in test and measurement, broadcasting, secure communications as well as radio monitoring and radiolocation for more than 75 years. By pursuing this four-pillar strategy, the company addresses customers from various market segments: wireless communications, broadcasting, electronics – as well as government authorities and organizations with security missions. The electronics group, with its headquarters in Munich, Germany, counts among the leading suppliers worldwide in all of its business fields. Rohde & Schwarz is a leading manufacturer of EMC test and measurement equipment as well as terrestrial TV transmitters.

For more information visit: www.rohde-schwarz.com

AT4Wireless:

AT4 wireless is a global supplier of Testing Services, Engineering and Test Systems.

From its Laboratories Division, AT4 wireless provides Testing and Certification Services for a wide range of industrial sectors (telecommunications, IT equipment, automation, medical and health, electronics, aerospace, naval, renewable energies and gaming technology, among others), with the aim to guarantee that products comply with the quality and certification requirements requested by the global market and users.

AT4 wireless is a global supplier of testing solutions for wireless technologies such as LTE, 2G/3G/HSPA+, WiMAX™, Wi-Fi, Bluetooth® and NFC, and is recognized as a leading telecom testing laboratory and test & measurement equipment manufacturer.

AT4 wireless covers world class services for conformance, regulatory and interoperability testing as well as field trials and worldwide compliance and type approval consulting, offering a truly one-stop service for the certification of telecommunication devices.

AT4 wireless was founded in 1991, has more than 350 employees and operates from its headquarters in Malaga (Spain), and branches in Herndon (VA), USA and in Taipei (Taiwan).

For more information visit: www.at4wireless.com

Novero:

novero GmbH is a leading European developer, manufacturer and seller of automotive mobile communication and multimedia solutions both to car manufacturers (OEMs) and to the car retrofit market. After the successful management buyout of Nokia's Automotive division in 2008, the team has been using its creativity and experience to develop, test and manufacture in Germany its very own, new class of wireless products for the automobile and Consumer industry.

Based on a long history of more than 15 years in designing products requiring Radio and EMC regulatory compliance, novero will be able to share experiences with testing, certification and approvals in the global markets, especially on how to build the bridge from the consumer electronics world towards the special automotive requirements.

For more information visit: www.novero.com

seminars@acbcert.com

<http://www.acbcert.com>

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