Annex 1

Training Course on Conformance and Interoperability Testing
C&I training on Electromagnetic Compatibility (EMC) for the Americas Region
24-28 June 2013, Campinas (SP), Brazil

Topics covered during the training:
• ITU Conformance and Interoperability (C&I) Programme: Pillars, Status and Action Plan
• Overview about Conformance Assessment of telecommunication products in America Region (declaration of conformity, certification, homologation, etc.)
• Overview regarding EMC
• Introduction to international and Regional normalization
• Overview about the ITU Standards regarding EMC
• Basic concepts regarding EMC
• Quantities, involved on EMC requirements
• Units used on EMC measurement
• Instruments and devices for testing and measurement
• Conformity and EMC International and National Standards:
  • Conducted Emission requirements and measurement methods
  • Radiated Emission requirements and measurement methods
  • Radiated Immunity requirements, test methods and test site
  • Conducted and transient immunity requirements, test methods and test site
  • Equipment Under Test (EUT) configuration
  • Behavior criteria for immunity tests
  • Test uncertainty
  • Considerations regarding anechoic chamber and shielded room
  • Aspects regarding accreditation of EMC Laboratories according ISO/IEC 17025

Visit to CPqD Laboratories:
• Specific Absorption Rate (SAR) test site
• Radio systems test sites (transceiver, mobile phone, LTE, WI-FI etc.)
• Electrical protection and safety test site
• EMC test sites

Workshop on EMC Test:
Participants will follow some tests prepared and executed at the EMC test lab in order to familiarize them with the practical aspects related to the tests.