

## 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.