



## CERTIFIED EMC PROFESSIONAL

### **Preamble :**

Electronic gadgets have proliferated in every area of our day to day lives. Incorporation of switching devices within circuits have led to faster responses and attractive performances of product. These have however resulted in such problems like Electromagnetic Interference (EMI). Testing, proper design & Certification has therefore become essential to ensure Electromagnetic Compatibility (EMC). EMI/EMC awareness is increasing day by day and many industries and government departments are demanding EMI compliant products. Moreover, EMI/EMC compliance is an essential requirement of various international certifications like CE Marking.

### **Objective :**

To Certify for EMC, one requires a thorough understanding of the EMC phenomenon, testing and design aspects. Ignoring EMC aspects at design stage would translate into heavy losses in terms of time and money because of the inherent difficulties in modifying a frozen design in the end. Ensuring EMC at design stage is therefore required to keep equipment costs low to maintain a competitive edge.

This programme aims to equip the delegates with the knowledge and skills required for Designing & Certifying an electronic assembly / peripheral / equipment for Electromagnetic Compatibility so that the entire process of EMC compliance becomes smooth and without glitches.

### **Course Methodology :**

The training course has built in continuous assessment. Skill development is achieved through several practical as per various National and International Standards by State-of-art EMC Lab

### **Who should Attend :**

The Managers, Engineers involved in Equipment Design, Production & Quality Certification of Electronics, Electrical, Electromechanical, Computers, Telecommunication, Medical Electronics, Power Electronics, Lighting Equipments & I.T. Products and of Automobile Industry etc for Electromagnetic Compatibility from industry, government and other organizations.



**Duration :** 5 Working Days

**COURSE CONTENTS :-**

- EMC Fundamentals
- Terminologies
- Conducted & Radiated Interference
- Conducted & Radiated Susceptibility
- Electrostatic Discharge
- IEC & EN Standards
- Military Specifications
- EMI Prediction
- EMC Test Plans
- Test Equipment & Test Facilities
- Practical Demonstrations of all the Topics
- Grounding & Bonding
- Filter Theory
- Power Line Filters & Transient Suppression
- Brief Antenna Theory
- Shielding Materials, Special Devices & Shielding Techniques
- Interface Control
- PCB Design
- Equipment Design
- Case Studies
- Certificate Examination

**Examination and Certification :**

The course is examination based. At the end of course, on 5<sup>th</sup> day a written examination is conducted.

The successful participants are awarded with ‘Certificate of Achievement’. In case a participant could not qualify, he or she will be awarded with “Certificate of Participation” only. These candidates can further re-take the examination in the next coming up courses with a nominal examination fee.