



## **Calibration of Test & Measuring Equipments (Electrical and nonelectrical parameters)**

### **SCOPE**

Establishing a Calibration system is a very important step in implementing a Quality System in an Organisation. This training program is aimed at making supervisory/management level personnel to become conversant in Calibration vis.a.vis overall Quality systems requirements. On completion of the training program the participants will be in a position to carry out calibration of test and measurement equipment in their lab, and will be able to help management in establishing in-house calibration facility.

### **TARGET PARTICIPANTS**

Test and Quality assurance personnel responsible for calibration activities in industry as well as service oriented organisations.

### **PRE REQUISITE**

Engineers preferably with some working experience in the area of quality assurance and measurements.

### **COURSE CONTENTS**

- Calibration Philosophy & Metrology Terminology
- Traceability in Measurements
- Errors in measurement and uncertainty computation
- Calibration procedures for Electrical & non-electrical parameters.
- Setting up in-house calibration facilities and NABL requirements

### **PRACTICAL DEMONSTRATION**

The practical demonstration /hands on practice will be provided for calibration of following equipments /systems in the laboratory:

- Digital Multimeters/ammeter/voltmeters
- Oscilloscopes/signal generators
- Thermometers/RTD/Thermistors
- Pressure gauges, Hygrometers



**CERTIFICATE:** Certificates will be awarded to the participants indicating grade of performance.

**DURATION** 5 Full working days      Timings: 1000 Hrs. to 1700 Hrs.

## **FACULTY**

The faculties / trainers for this course are well qualified and experienced Scientists from STQC and have domain specific expertise.

## **METHODOLOGY**

- Course delivery: STQC courses are normally delivered in English. However, depending upon the need the courses are also delivered in Hindi or regional languages as desired. The STQC- courses are class room type and conducted at STQC Centres.
- Course Material: The delegates will receive a course book prepared by STQC during the commencement of course. In addition, for hands on practice set of tools and kits will also be demonstrated / provided as appropriate / applicable.

## **BENEFITS**

Upon qualification of this course, participants will be able to perform more professionally.

## **FURTHER INFORMATION**

For venue and dates of open advertised courses, please visit STQC website and contact course coordinator STQC Directorate, New Delhi.

**Onsite and /or tailor made courses can also be offered on specific request.**