

3-Day Practical Training On Electronic Instrumentation and Measurements

Course Datasheet GT0101A

Course Overview

Electronic measurements are essential for use in various stages of product development, which include circuit design verification, troubleshooting, quality control, as well as failure analysis. This course highlights the fundamentals of electronic measurement and provides hands-on exercise on how to use various types of basic instruments.

Who Will Benefit From This Course

This course is specially designed for *technicians* and *engineers* interested in

- Basics of electronic instrumentation
- Practical measurement techniques
- Exposure to usage of measurement equipments
- Exposure to usage of instrument programming tools

Prerequisite

Basic knowledge of electronics

Course Duration

3 days, 9am – 5pm

Course Outlines

Day 1

Measurement Fundamentals

- What do we measure
- What are the available tools for measurements
- Overview of basic electronic instruments

DC Power Supply and Multimeter

- What exactly is a DC power supply
- What can we measure using multimeter
- How to troubleshoot using multimeter

Hands-on Session: Measuring basic electrical qualities

Day 2

Quality of Measurement

- How to define *quality* of measurement
- What is measurement uncertainty
- How to perform instrument calibration

Function Generator and Digital Oscilloscope

- What is function generator
- What can we measure using oscilloscope
- What are the advanced features in modern digital oscilloscope

Hands-on Session: Measuring signals in time-domain

Day 3

RF Signal Generator and Spectrum Analyzer

- How to measure signals in frequency domain
- How to generate high frequency signals
- What can we measure using spectrum analyzer

Introduction to Measurement Automation

- Overview of automated measurement system
- How to collect time series data and store in PC
- Introduction to instrument programming

Hands-on Session: Measuring signals in frequency-domain

For more information on this course, kindly contact:

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