

Basic of Field Instruments & Calibration

TE279

Course Overview:

This Basic field of Instrumentation training course is introduction to instrumentation for beginners, but also as Instrumentation-I and calibration. This basic instrumentation course is meant to provide an understanding of instrumentation and calibration to a trainee that is new to the field of instrumentation. Further, this basic instrumentation course should be assigned to students with no or little experience, but with a mechanical and electrical aptitude.

Course Objective:

- -Make accuracy statements for various types of Instrumentation and calibration.
- -Differentiate between digital and analog Instrumentation and describe the advantages of each.
- -Use basic electronic test equipment for simple troubleshooting applications.
- -Describe the operation of various devices used to measure both level and flow.
- -Make temperature measurements using both thermocouples and resistive temperature devices.
- -Describe the operation of instruments used for various combustion control and
- -Understand how instruments and calibrate are used for process control.

Course Outline:

- -Electrical Measurements
- -Introduction to instrumentation
- -Direct current meters
- -Ammeters
- -Voltmeters
- -Ohmmeters
- -Watt meters
- -Ac current meters
- -Potentiometer circuits
- -Dc and ac bridges
- -Electronic Measurements
- -Electronic voltmeters
- -Oscilloscopes
- -Recording instruments
- -Transducers
- -Digital instruments
- -Noise
- -Troubleshooting with instruments
- -Signal analyzers and data acquisition systems

Who Should Attend:

This course is intended for Engineers & technicians working in plants, Factory, power generation plants and production companies

Page: 1 | 1

Training Language:

EN / AR

Training Methodology:

- -Presentation & Slides
- -Audio Visual Aids
- -Interactive Discussion
- -Participatory Exercise
- -Action Learning
- -Class Activities
- -Case Studies
- -Workshops
- -Simulation



9200 02449

