

Industrial Temperature Calibration

A 3-day course to explore the theory and practice of temperature measurement & calibration

Fluke South East Asia Pte Ltd and Institute of Technical Education (ITE), Singapore are pleased to jointly organize a 3-day course – TRC 2003 Industrial Temperature Calibration.

Objectives

To understand the techniques of industrial temperature calibration and accuracy issues.

Description

This is an introduction to the basic principles and techniques for testing or calibrating common sensors and thermometers in the industrial environmental.

It will focus on practical applications and hands-on experience with classroom discussion of the theory behind the technique. Sessions include hands-on exercises in automated temperature calibration, loop calibration, triple-point water and LIG calibration.



Course Outline

Overview

- ITS-90, international agreements
- Terminology review
- Traceability & hierarchy

Unit Under Test Fundamentals

- Types, characteristics, and limitations
- Thermometer configurations

Calibration Methods

- Simulators
- Reference heat sources
- Reference thermometers
- Introduction to accuracy
- How accuracy is determined
- Error sources
- Special cases and challenges

Calibration Equipment

- Learn the characteristics and applications
- Heat sources
- Thermometers and readouts
- Standards – what is suitable as a reference

Case Studies

Other Issues

- Quality issues – ISO 17025, Z540, reports, record keeping
- Math applications
- Introduction to high – precision equipment
- Q & A Session

Hands-on Exercises

Course Information

Training Date: 06 – 08 April 2009
23 – 25 September 2009

(9:00am to 5:00pm)

Course duration: 3 days

Trainer: Mr. Woon Kin Seong
Mr. Chng Wee Kian
ITE Lecturers

Location: ITE College Central (MacPherson)
Block D Room 206 (D206)
201 Circuit Road
Singapore 379498

Course Fee: Pls refer to your local Fluke Representative for course fees.

Certificate: This course has been approved for 21 PDU units under the Professional Engineer Board (PEB) Continuing Professional Development program.

A certificate of training will be issued upon successful completion of the course.

Registration: Ms. Stephanie Quek
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Who Should Attend

This class is ideal for those who responsible for calibrating in-field standards. Participants should have some relevant experience on sensor calibrations.