

E-Learning Online Training

Isotech is widely recognised as a leading provider of training for temperature calibration. Isotech introduced a new course in 2003, this course runs periodically in the UK and in other countries around the world. For those not able to attend in person Isotech now offer the course as an E-learning opportunity. The resources have been developed as part of the *e-Learning Place*. This £3-million project has enabled Isotech, in partnership with the University of Liverpool and Connect Internet Solution, to create high-quality courses incorporating multimedia features and on-line interactive assessment.

Who is the E-Learning Online Training aimed at ?

- *People who are considering starting to calibrate sensors*
- *Those new to Temperature Calibration*
- *Industrial Users seeking a fuller picture of calibration*
- *People who are planning to purchase new equipment*

What are the benefits ?

- *An understanding of temperature calibration*
- *The methods of calibration*
- *The types of equipment available*
- *How to select the appropriate equipment*
- *How to avoid common pitfalls*

What is covered ?

- *Isotech: A brief introduction*
- *Fundamental Questions: What is temperature?*
- *The Two Methods of Calibration*
- *Equipping for Industrial Calibration*
- *Equipping a Secondary Laboratory*
- *Equipping a Primary Laboratory*
- *Degrees of Automation*
- *Understanding Sources of Error*
- *Traceability*
- *Uncertainty*

What Modules are available ?

Temperature Training: 1 - Introduction

This section introduces Isothermal Technology and asks "What is Temperature?" before moving on to discuss how we measure temperature, and the need for calibration.

Temperature Training: 2 - Two Methods of Calibration

This module explains the two methods of temperature calibration, Comparison Calibration and Fixed Point Calibration. It also introduces the International Temperature Scale and ITS-90 Fixed Points.

Temperature Training: 3 - Equipping for Industrial Calibration

This module explains about the type of equipment used for the industrial calibration of temperature sensors. Includes equipment used for the calibration of thermocouples and platinum resistance thermometers.

Temperature Training: 4 - The Secondary Laboratory

This module explains about the type of equipment used in the secondary laboratory. Includes liquid calibration baths, high temperature calibration equipment and instrumentation.

Temperature Training: 5 - The Primary Laboratory and Traceability

Explains the role of the primary laboratory and traceability to primary standards.

Temperature Training: 6 - Real World Calibration

Calibration Engineers are often challenged, the temperature sensors are too short to be calibrated, the results are not as expected, the measurements are not reproducible – the list goes on. This section looks at platinum resistance thermometers and thermocouples, examining sources of error and common calibration problems.



**For more information contact:
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