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Calibration & Uncertainty of Measurements

(2 days)

	Topics
Day - 1	<p>Introduction to Calibration</p> <p>Measurement Traceability to International Standards</p> <p>Environmental requirements for Dimensional Calibration</p> <p>IS/ISO/IEC 17025:2005 Standard</p> <ul style="list-style-type: none">• Quality System Requirements• Technical Requirements <p>Inter Laboratory Comparison and Proficiency Testing</p> <p>Case Studies of Calibration of</p> <ul style="list-style-type: none">• Measuring Devices• Gauges and Masters• Measuring Machines
Day - 2	<p>Introduction to Uncertainty of Measurements</p> <p>Definitions, Terminology and Basic Concepts</p> <p>Probability Distribution Functions</p> <p>Statement of Uncertainty of Measurements in a calibration certificate</p> <p>Meaning of 95% confidence level and K factor</p> <p>Components of Uncertainty in measurements</p> <ul style="list-style-type: none">– Random and Systematic <p>Step by step Procedure for Evaluation of Uncertainty of Measurements</p> <p>Evaluation of UOM – Case studies</p> <p>Evaluation and meanings of Z and En factors.</p> <p>Questions & Answers</p>