



## CERTIFIED CALIBRATION PROFESSIONAL

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| <b>Course Objectives:</b> <ol style="list-style-type: none"><li>1. To develop Calibration Professionals capable of handling calibration laboratories &amp; managing calibration system in an organization</li><li>2. Understand Measurement Units, Standards, Systems, Testing &amp; Calibration, Traceability &amp; Uncertainty, Mathematics &amp; Applied Statistics</li><li>3. Understanding standards ISO 9001 &amp; 17025 requirements with regard to Laboratory Management for implementation &amp; maintenance of accreditation.</li></ol> |  |
| <b>Duration</b>   | 5 working Days   |
| <b>Eligibility Criteria</b>   | ITI/Diploma/Bachelors/Masters degree in engineering/Science with min. one year work experience in calibration of equipment in the field of Electro-technical, Mechanical, Thermal & Optical.   |
| <b>Course contents</b>  | Course is designed in six modules –<br><br>Module I – GENERAL METROLOGY (Global metrology scenario, Measurement units, Measurement standards & Measurement traceability)<br>Module II – MEASUREMENT SYSTEM (Measurement methods, Measurement data & characteristics of measurements, T&ME specifications, Primary error sources, Measurement systems and capabilities & Measurement assurance programs)<br>Module III – CALIBRATION SYSTEM (Calibration procedures & methods, Industry practices & regulations, Control of calibration environment, Calibration processes, Manual & automated calibration, Calibration results & reporting and Records & records management)<br>Module IV - APPLIED MATHEMATICS & STATISTICS (Technical & Applied mathematics, QC tools and Applied statistics)<br>Module V – UNCERTAINTY (Uncertainty management, Uncertainty components, Estimation of uncertainty, Evaluation of uncertainty & Reporting uncertainty)<br>Module VI - QUALITY SYSTEMS & STANDARDS (Quality concepts, Management system ISO/IEC 17025 and NABL accreditation) |
| <b>Course Material</b>  | The delegates will receive Specific designed Course notes, copy of ISO/IEC 17025:2005 standard & Stationery.   |
| <b>Methodology</b>  | Lectures, highly interactive sessions, group exercises and case studies.   |
| <b>Certification</b>  | The participants are awarded 'Certificate of Achievement' after successful in all six module tests scoring minimum 60% in each module with grading A:60-69% , A+:70-79% , A++: ≥ 80% .   |
| <b>Participants &amp; Nominations:</b><br>The course will have maximum of 15 participants on 'first come-first serve' basis.  |  |