



CSIR-National Physical Laboratory
Dr. K. S. Krishnan Marg, New Delhi-110012
Skill Development Training Calendar 2025-26

GENERAL INSTRUCTIONS

In case of an inadequate number of participants (less than 10), for a particular training programme, CSIR- NPL may drop the execution of that program. Hence, before sending the Payment Receipt, it is advised to confirm with the HRD (hrd@nplindia.org) or the concerned **Technical Coordinator** about its dates and execution.

For Technical queries about the training course, the prospective participants may contact the concerned technical coordinator

- ❖ **Only Indian Citizens can apply for the training program**
- ❖ **Fees, once submitted, are not refundable**

Training Fee/Charges: Per Participant:

| One Day Course | Two Days Course | Three Days Course | Four Days Course | Participants |
|-----------------------|------------------------|--------------------------|-------------------------|--------------------------------|
| ₹3,000 + GST (@18%) | ₹4,000 + GST (@18%) | ₹5,000 + GST (@18%) | ₹6,000 + GST (@18%) | Professionals |
| ₹500 + GST (@18%) | ₹1000 + GST (@18%) | ₹1500 + GST (@18%) | ₹2000 + GST (@18%) | Students and college Faculties |

TDS: CSI-NPL is exempted from Tax Deduction at Source under Section 35(1)(ii) of the IT Act 1961. The Training Fee includes Course materials, Training Kit, Lunch, Tea/Coffee, Certificate etc.

After confirming with HRD, preferably training fees should be sent at least two weeks prior to the commencement of the desired training program through a **Demand Draft** drawn in favor of the “**DIRECTOR NATIONAL PHYSICAL LABORATORY**”, payable at “**NEW DELHI**”

Online Transfer is also acceptable through Canara Bank Account No. 91002010030018, NPL Campus, National Physical Laboratory, Dr. K. S. Krishnan Marg, New Delhi-110012. **IFSC Code CNRB0019100**, **MICR no. 110015428**. Kindly confirm the NEFT transfer details through e-mail. In the remarks column of NEFT, please mention “STP No. & Name of the Participants, HRD, NPL”

All STP courses will be conducted in offline mode, unless there is any inescapable situation. Participants are requested to check their schedules before applying for any course. **No request from participants for changes in venue, date, or mode of training will be entertained.**

Lodging & Boarding: Participants are expected to arrange their own accommodations as limited seats are available at NPL Guest House. However, after the payment of registration fees, requests may be sent to nplguesthouse@nplindia.org with HRD in cc. Please note that guest house charges have to be borne by the trainees – at the prevailing rates of NPL Guest House.

For registration kindly fill the following Google form link:

<https://forms.gle/4XcYoTdujGZckqmR8>

For any enquiry, the Participants may contact: -

Dr. Ajeet Singh

Chief Scientist, Head HRD

National Physical Laboratory, New

Delhi Pin: - 110012

Ph: - 011-4560 9366, / 011-4560 9361(O)

E-Mail: - ajeet.singh@csir.res.in

| S. No. | Title of Training Program on | Tentative Dates, Duration |
|--------|---|-------------------------------|
| STP-1 | Workshop on Advanced Instrumentation Techniques for Material Analysis | 18-20 June, 2025, 3 days |
| STP-2 | Training program on mass and dimensional metrology: calibration and measurement uncertainty evaluation. | 21-25 July, 2025, 5 days |
| STP-3 | Biomedical Metrology | 17-18 July, 2025, 2 days |
| STP-4 | Training Programme on IS/ISO/IEC 17025:2017 (General Requirements for the competence of testing and calibration laboratories) and Internal Audits | 4-7 August, 2025, 4 days |
| STP-5 | DC Metrology | 12-13 August, 2025, 2 days |
| STP-6 | Training Programme on Fluid Flow Metrology | 18-20 August, 2025, 3 days |
| STP-7 | Air Quality Measurements | 10-12 September, 2025, 3 days |
| STP-8 | Training Program on Plastic Processing, Waste Management and Recycling | 8-10 September, 2025, 3 days |
| STP-9 | Force, Torque and Hardness Metrology | 17-18 September, 2025, 2 days |
| STP-10 | Impedance Metrology | 29-30 September, 2025, 2 days |
| STP-11 | Temperature, Humidity and Moisture Metrology | 12-14 November, 2025, 3 days |
| STP-12 | Awareness Program on E-waste Management and Recycling | 17-18 November, 2025, 2 days |
| STP-13 | Optical Radiation Metrology | 19-21 November, 2025, 3 days |
| STP-14 | Acoustic and Vibration Metrology | 26 November, 2025, 1 day |
| STP-15 | Material Metrology | 3-4 December, 2025, 2 days |
| STP-16 | Time & Frequency Metrology | 19-21 January, 2026, 3 days |
| STP-17 | Symposium Battery Testing and Calibration | 22-23 January, 2026, 2 days |
| STP-18 | Training Program on Advance Materials Characterization Techniques | 11-13 February, 2026. 3 days |
| STP-19 | Laser Interferometer and Dimensional metrology | 18-20 February, 2026, 3 days |
| STP-20 | Workshop on terahertz technologies | 4-6 March, 2026, 3 days |
| STP-21 | Scientific Communications | 12-13 March, 2026, 2 days |

Free Skill Training Programme on 2025-2026

| S. No. | Title of Training Program on | Tentative Dates, Duration |
|--------|---------------------------------|----------------------------|
| FSTP-1 | Awareness about Basic Metrology | 3-4 February, 2026, 2 days |

| S. No. | Title of Training Program on | Tentative Dates, Duration | Content of the Training Programme | Technical Coordinator's |
|--------|---|-----------------------------|---|---|
| STP-1 | Workshop on Advanced Instrumentation Techniques for Material Analysis | 18-20 June, 2025, 3 days | This workshop offers a specialized, hands-on learning experience (for few equipment) focused on advanced techniques for materials characterization. This programme is designed to equip participants with both theoretical knowledge and practical skills in the use of state-of-the-art tools essential for analyzing and understanding the properties and behavior of advanced materials. | Dr. N. Vijayan nvijayan@nplindia.res.in Ph: - 011-45608263 |
| STP-2 | Training program on mass and dimensional metrology: calibration and measurement uncertainty evaluation. | 21-25 July, 2025, 5 days | Calibration of weights employing substitution method, Volumetric glassware and balances, Vernier caliper, micrometer, gauge blocks, height gauges and angle gauges etc., followed by measurement uncertainty evaluation for all the parameters. | Dr. Nidhi Singh Singhnidhi.Nplindia@Csir.Res.in In Ph 01147091139 |
| STP-3 | Biomedical Metrology | 17-18 July, 2025, 2 days | Biomedical Metrology: Biomedical parameters, uncertainty evaluation, Calibration of medical device analyzers & simulators and testing of medical devices | Dr. Sudesh Yadav sudesh.yadav@nplindia.res.in Ph: 01145609362 |
| STP-4 | Training Programme on IS/ISO/IEC 17025:2017 (General Requirements for the competence of testing and calibration laboratories) and Internal Audits | 4-7 August, 2025, 4 days | This training program is designed to impart an interactive experience to the participants in the quality system based on IS/ISO/IEC 17025:2017 Standards and to conduct internal audits. | Mr. Goutam mandal Goutam.nplindia@csir.res.in Ph 011-4560 9435 |
| STP-5 | DC Metrology | 12-13 August, 2025, 2 days | Metrological traceability and Calibration of Digital Multimeter, Multifunction Calibrator, DC Voltage, Current and Resistance, Low Value Resistance and High Value Resistance, DC Voltage Ratio, DC High Voltage/ Current along with uncertainty in measurement | Dr. Hemavathi A. hkarthik.nplindia@csir.res.in |

| | | | | |
|--------|--|-------------------------------|---|---|
| STP-6 | Training Programme on Fluid Flow Metrology | 18-20 August, 2025, 3 days | Introduction to fluid flow measurements, types of fluid flow standards (primary, secondary, reference/ transfer standards), various types of flow-meters and their applications, testing and calibration procedures of water meters, water flowmeters and gas flowmeters | Dr. Shiv Kumar Jaiswal skjaiswal@nplindia.org Ph: 011-45609426/8583 |
| STP-7 | Air Quality Measurements | 10-12 September, 2025, 3 days | National ambient air quality standards (NAAQS), quality infrastructure (as per ISO/IEC 17025), general definitions, gas measurement techniques (greenhouse and pollution gases), PM10 and PM2.5 measurements and their calibration (gravimetric sampler, FRM, BAM), particle size concentration measurement, gas standard preparation (ISO 6142, ISO 17034) and analysis (by GCs and CRDS), calibration of analyzers, dilutors, primary techniques of gaseous pollutant measurements (including wet chemical), airflow measurement techniques, analysis of particulate bound chemicals using ICP-OES, measurement uncertainty estimations, with hands-on training on most of the parameter of NAAQS. Noise pollution and ambient sound standard and measurement techniques. | Dr. Shankar G. Aggarwal aggarwalsg.nplindia@csir.res.in |
| STP-8 | Training Program on Plastic Processing, Waste Management and Recycling | 8-10 September, 2025, 3 days | | Dr. Parveen Saini pksaini@nplindia.org 011-45609505/8627 |
| STP-9 | Force, Torque and Hardness Metrology | 17-18 September, 2025, 2 days | Calibration of Force, Torque and Hardness parameters along with laboratory demonstration and followed by measurement uncertainty evaluation for all the parameters. | Dr. Rajesh Kumar kumarr@nplindia.res.in Ph: 1145608680 01145608674 |
| STP-10 | Impedance Metrology | 29-30 September, 2025, 2 days | Metrological traceability and Calibration of LCR Meter, AC Resistance, Capacitance, Inductance with various techniques along with uncertainty in measurement | Dr. Satish satish.nplindia@csir.res.in |

| | | | | |
|--------|---|------------------------------|---|--|
| STP-11 | Temperature, Humidity and Moisture Metrology | 12-14 November, 2025, 3 days | Calibration and Testing in Temperature, Humidity and Moisture Metrology | Dr. D. D. Shivagan shivagand@nplindia.res.in |
| STP-12 | Awareness Program on E-waste Management and Recycling | 17-18 November, 2025, 2 days | | Dr. Parveen Saini pkssaini@nplindia.org 011-45609505/8627 |
| STP-13 | Optical Radiation Metrology | 19-21 November, 2025, 3 days | Basics in calibration and measurement of parameters of optical radiation metrology and related standards | V K Jaiswal jaiswalvk@nplindia.res.in |
| STP-14 | Acoustic and Vibration Metrology | 26 November, 2025, 1 day | Acoustic and Vibration Metrology, Uncertainty evaluation | Dr Naveen Garg ngarg.nplindia@csir.res.in |
| STP-15 | Material Metrology | 3-4 December, 2025, 2 days | Dielectric Constant Measurement, Electrolytic Conductivity, Resistivity and Conductivity of Solid Reference Materials along with uncertainty in measurement | Dr. Satish satish.nplindia@csir.res.in |
| STP-16 | Time & Frequency Metrology | 19-21 January, 2026, 3 days | Basics of atomic clocks, measurement & dissemination techniques, and applications of T&F Metrology | Dr. Poonam Arora arorap@nplindia.res.in |
| STP-17 | Symposium Battery Testing and Calibration | 22-23 January, 2026, 2 days | Battery Testing and Calibration: Present and Future | Dr. Satish satish.nplindia@csir.res.in |
| STP-18 | Training Program on Advance Materials Characterization Techniques | 11-13 February, 2026, 3 days | | Dr. Parveen Saini pkssaini@nplindia.org 011-45609505/8627 |
| STP-19 | Laser Interferometer and Dimensional metrology | 18-20 February, 2026, 3 days | Laser Interferometer, GBI, LMM, ZyGO etc. | Dr. Mukesh Jewariya jewariya.mukesh@nplindia.res.in |

| | | | | |
|--------|------------------------------------|---------------------------|--|--|
| STP-20 | Workshop on terahertz technologies | 4-6 March, 2026, 3 days | Basics of terahertz technologies, spectroscopy and Imaging | Dr. Mukesh Jewariya jewariya.mukesh@nplindia.res.in |
| STP-21 | Scientific Communications | 12-13 March, 2026, 2 days | Scientific Writing, Ethics, Plagrisms etc. | Dr. Mukesh Jewariya jewariya.mukesh@nplindia.res.in |

Free Skill Training Programme for 2025-2026

| S. No. | Training Program | Dates & Duration | Content of the Training Programme | Technical Coordinator |
|--------|---------------------------------|---------------------------|---|--|
| FSTP-1 | Awareness about basic metrology | 3-4 February 2025, 2 Days | <p>This program is intended to provide awareness about basic metrology. The sessions shall cover basics of measurement systems both at national and international level. In addition, it shall summaries an overview of SI units before and after redefinition. Also, metrological terms will be introduced along with requirement on equipment. Furthermore, basics of measurement uncertainty will be discussed in detail. This online training program has specifically designed for accredited labs, students, researchers, and academicians.</p> | Dr. Nidhi Singh Ph: 011-47091139/2139 singhnidhi@nplindia.org |