

# Annual Training Calendar – 2024

## FOR FOREIGN OFFICIALS OF LEGAL METROLOGY



**GOVERNMENT OF INDIA**  
Ministry of Consumer Affairs, Food & Public Distribution  
Department of Consumer Affairs  
**INDIAN INSTITUTE OF LEGAL METROLOGY**

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Few photographs of training activities, Participants from Bhutan



## Message from the Desk of Head of Office

### Embracing the Future: A Glimpse into Our Training Calendar

This is my great pleasure to place before you the Training Calendar for Foreign Officials 2024 which is the yearlong activities calendar of the institute for foreign official's trainings.

In a world that is constantly evolving, the need for continuous learning and skill development has never been more crucial. At Indian Institute of Legal Metrology, we are committed to provide our valued learners with the knowledge and tools they need to succeed in today's fast changing world in the field of Legal Metrology. The aim of the institute is to impart the training in the field of legal metrology to make the educated legal metrology officers of the developing countries. As we embark on a new year, we are excited to unveil our Training Calendar, packed with a diverse array of courses tailored to meet the needs of our learners. Our carefully curated Training Calendar is a testament to this commitment, offering a comprehensive range of courses designed to equip individuals with the expertise they need to thrive in the field of Legal Metrology. We as a team believe in total satisfaction of our trainee officials and strive to deliver the same with quality. It is a convergence of trainee officials' needs and futuristic assessments of Legal Metrology agreed upon by series of trainings conducted at IILM, Ranchi. The Institute organizes various short-term training programmes on major topics of Legal Metrology like Fuel dispenser for motor vehicles, LPG dispensers, CNG system for vehicles, Non – automatic weighing instruments, automatic rail-weigh bridges, mass comparator, automatic instruments for weighing road vehicles in motion, load cells etc. which will pave the path for holistic development of Trainee officials. The Training Calendar opens up ample opportunity for trainee officials to learn practical and legal aspects of Weights, Measures, Weighing and Measuring instruments. The faculty members of this institute with their intellect, involvement, interaction and inherent work culture are the real experts available in the system. The training activities lead to multiple level of diversified learning by involvement of industries and weights and measures establishments who have excellent infrastructures at different locations of the country and are opened to our participants. Integrating social media to teaching-learning and reaching out to our remote participants through online based training is an innovative outcome of this institute that shows the urge for inventing new teaching-learning methods and tools.

An investment in training is an investment in your future. Our Training Calendar is designed to help you to achieve your professional goals and reach your full potential. We encourage you to explore the diverse range of courses we offer and embark on a journey of continuous learning and growth. As we move forward, we remain dedicated to providing our learners with the highest quality training available. The Training Calendar is a reflection of this commitment, and we are confident that it will empower our learners to achieve their professional aspirations and contribute to the success of their organizations. Hope this year's Training Calendar, the activities calendar of the institute will meet your expectations of rich learning and provide you knowledge, skill and enlightenment.

**Professor B. D. Konar**  
Head of Office  
IILM, Ranchi

## ABOUT IILM

Indian Institute of Legal Metrology, a unique pioneer institute of its nature, commonly known as IILM, is a statutory body deemed to be established by the Government of India under section 21 of the Legal Metrology Act.2009. It is only one of the kinds not only in India but also an apex institute in the South and South East- Asia. This Institute is working under direct control of Central Govt., Ministry of Consumer Affairs, Food and Public Distribution, Department of Consumer Affairs. It is well equipped with reputed, highly qualified, experienced faculty members, resourceful laboratories and other allied necessary facilities to enable it to function effectively in the field of Legal Metrology.



### Courses for foreign officers conducted by the Institute

Institute had conducted the number of courses in the field of Legal Metrology for the foreign officers in past. Till date the foreign participants at about 32 countries have attended the various courses. The details of foreign officials latest by 10 years are as below

Country	No. of Participant	Year	Course Name
Bhutan	37	2023	Special Course on various weighing & measuring instruments like static weighbridge, WIM etc.
Bhutan	09	2018	Tailor made Training for Repair and adjustment of Non-automatic weighing instruments
Bhutan	06	2010	Capsule Course on Legal Metrology for foreign officials
Maldives	10	2012	Foundation course for foreign officials in Legal Metrology
Tanzania	10	2015	Special course for foreign officials on NAWI, Fuel Dispenser for motor vehicle, LPG dispenser & CNG system for vehicle.
Tanzania	10	2015	Special course on calibration of vertical oil storage tank, vehicle tank, testing procedure for water meter, WIM and load cell principle.
Tanzania	10	2015	Special course on calibration & maintenance of standard balances, mass comparator, Clinical thermometer & Sphygmomanometers
Tanzania	10	2015	Special course for foreign official on Legal Metrology (Packaged Commodities Rules, 2011 & calibration & maintenance of standard balances



## Objective of the Courses

In a world where precise measurement is the cornerstone of fair trade and consumer protection, legal metrology plays a pivotal role in ensuring the accuracy and integrity of measurement systems

To make harmonization in Legal Metrology worldwide, The Indian Institute of Legal Metrology, Ranchi, India gives its contribution by imparting the training in its field. It is known that training and development of human resources has evoked a great deal of interest in recent years. Training is a systematic process of changing the behavior, knowledge, and attitudes of present employees to improve the match between employee characteristics and employment requirements. Training and development function in an organization has gradually become a major activity since the continued effectiveness and efficiency of an organization depends on the ability of its employees to produce at high levels of efficiency, and keep abreast with their changing job-role demands.

The objective of training is to develop specific and useful knowledge, skills and techniques and to make them familiar with the Legal Metrology system, International traceability, testing procedure of weight, measure, weighing Instrument and Measuring instruments as per the International best practices in the field of Legal Metrology. The objective of the training is to spread the knowledge about the Metrological control of the Legal Metrology in weight or Measure as well as in packaged commodities.

### Methodology of the Training

Institute adopts broadly three methodologies to impart the training-

- By conducting theory classes to enrich the participants about the Legal and Technical aspects of the Legal Metrology. Under theory classes, Lectures, study notes, worksheets, group discussion etc. is covered.
- By conducting Practical Classes to make them familiar with practical approach in technical aspects of the Legal Metrology. Under practical classes, participants have to performed the experiments and have got the opportunity to learn the verification/testing process of the weights, Measures, weighing Instruments and Measuring Instruments.
- By conducting field visit to make the live demonstration of the verification/Testing procedure of the weighing and measuring Instruments.

**Evaluation of Training** - At the end of the training, a general questioner will be provided to evaluate the training outcomes.

**Awarding of Certificates** - All the participants will be awarded with Certificate at the end of the course.

**Feedback form** - The participants will be requested to give the feedback/suggestion(s) about the course for future prospective.

## Faculty members



Dr. R. Kumar  
Director



Prof. Banshi Dhar Konar  
Head of Office, IILM, Ranchi



Dr. D. K. Dwivedi  
Professor



Shri Manish Prasad  
Professor



Shri Aditya Prasad  
Assistant Professor



Shri M. L. Rastogi  
Assistant Professor



Shri V. K. Pandey  
Assistant Professor



Shri Ravi Shankar Singh  
Metrological Assistant



Shri Manish Kumar  
Metrological Assistant



Shri Himanshu Sahu  
Metrological Assistant

# INDIAN INSTITUTE OF LEGAL METROLOGY, RANCHI

## Annual Training calendar for Foreign Officials of Legal Metrology (For the Year-2024)

Sl. No.	Month	Name of the Course	Eligibility of the Participant	Duration	Tentative Period	Course Content	Tuition Fee (in INR)
01	March 2024	Two week training program on clinical thermometer, sphygmomanometer and Taximeter	Nominated foreign Officers of the Legal Metrology departments through proper channel & with due compliance of Rules / regulations of concerned Ministries/Departments of the India and source countries.	02 weeks	13/03/2024 To 24/03/2024	<ul style="list-style-type: none"> <li>➤ Legal Metrology system</li> <li>➤ Traceability of the Standards</li> <li>➤ Familiarization with clinical thermometer, sphygmomanometer and taximeter.</li> <li>➤ Testing Procedure of Clinical thermometer</li> <li>➤ Testing Procedure of Sphygmomanometer and Taximeter.</li> </ul>	42,000/-
02	April 2024	One week training program on calibration of Digital Balances, weights and estimation of uncertainty in Measurement		01 week	22/04/2024 To 26/04/2024	<ul style="list-style-type: none"> <li>➤ Legal Metrology system</li> <li>➤ Traceability of the Standards</li> <li>➤ Familiarization with digital type balances and weights.</li> <li>➤ Calibration procedure of Digital type balances and weights</li> <li>➤ Concept of uncertainty and estimation of uncertainty in measurement</li> </ul>	21,000/-
03	May 2024	Two week training program on Measuring system for Liquids other than Water ( Fuel Dispensers) & CNG, Discontinuous totalizing automatic weighing Instruments and Automatic Gravimetric filling machine.		02 weeks	06/05/2024 To 17/05/2024	<ul style="list-style-type: none"> <li>➤ Legal Metrology system</li> <li>➤ Traceability of the Standards</li> <li>➤ Familiarization with measuring system for liquids other than water like fuel dispensers for liquids other than water, LPG dispensers etc. CNG, Discontinuous totalizing automatic weighing Instruments and Automatic Gravimetric filling machine.</li> <li>➤ Accuracy class, MPE determination and testing procedures</li> </ul>	42,000/-

Sl. No.	Month	Name of the Course	Eligibility of the Participant	Duration	Tentative Period	Course Content	Tuition Fee (in INR)
04	June 2024	One week training program on Automatic Instruments for weighing road Vehicles in motion and measuring axle loads and Load cell (OIML-R-60)	Nominated foreign Officers of the Legal Metrology departments through proper channel & with due compliance of Rules / regulations of concerned Ministries/Departments of the India and source countries.	01 week	10/06/2024 To 14/06/2024	<ul style="list-style-type: none"> <li>➤ Legal Metrology system</li> <li>➤ Traceability of the Standards</li> <li>➤ Familiarization with Automatic Instruments for weighing road Vehicles in motion and measuring axle loads and Load cell (OIML-R-60)</li> <li>➤ Accuracy class determination</li> <li>➤ MPE determination and testing Procedure</li> </ul>	21,000/-
05	July 2024	Two week training program on vertical oil storage tank, Vehicle tank for petroleum product, Bulk Meter and Measures		02 weeks	08/07/2024 To 19/07/2024	<ul style="list-style-type: none"> <li>➤ Legal Metrology system</li> <li>➤ Traceability of the Standards</li> <li>➤ Familiarization with vertical oil storage tanks, vehicle tanks and measures used in legal metrology field.</li> <li>➤ Calibration process of Vertical oil storage tank and vehicle tank for petroleum products.</li> <li>➤ Verification process of measures.</li> </ul>	42,000/-
06	August 2024	One week training program on Non-automatic weighing Instruments, Beam Scale and Counter Machine		01 week	19/08/2024 To 23/08/2024	<ul style="list-style-type: none"> <li>➤ Legal Metrology system</li> <li>➤ Traceability of the Standards,</li> <li>➤ Detail study on Non-automatic weighing Instruments as per OIML R-76 includes Accuracy class determination, MPE Calculation and testing Procedure.</li> <li>➤ Detail study of Beam Scales and Counter Machines and their testing.</li> </ul>	21,000/-
07	September 2024	Two week training program on standard balances, standard weights, Digital type balances and estimation of uncertainty		02 weeks	09/09/2024 To 20/09/2024	<ul style="list-style-type: none"> <li>➤ Legal Metrology system</li> <li>➤ Traceability of the Standards</li> <li>➤ Familiarization with Standard balances, standard weight and Digital type balances.</li> <li>➤ Testing/verification process of standard balances and standard weights.</li> <li>➤ Calibration process of digital type balances</li> <li>➤ Concept of uncertainty and its estimation in measurement</li> </ul>	42,000/-

Sl. No.	Month	Name of the Course	Eligibility of the Participant	Duration	Tentative Period	Course Content	Tuition Fee (in INR)
08	October 2024	One week training program on Automatic Rail-weigh Bridges and on Non-automatic weighing Instruments	Nominated foreign Officers of the Legal Metrology departments through proper channel & with due compliance of Rules / regulations of concerned Ministries/Departments of the India and source countries.	01 week	21/10/2024 To 25/10/2024	<ul style="list-style-type: none"> <li>➤ Legal Metrology system</li> <li>➤ Traceability of the Standards</li> <li>➤ Familiarization with automatic Rail-weigh Bridges and Non-automatic weighing Instruments</li> <li>➤ Accuracy class determination</li> <li>➤ MPE determination and testing Procedure</li> </ul>	21,000/-
02	November 2024	Two week training program on Act and Rules in Legal Metrology in India, Packaged commodities and world-wide general acceptance of legal metrology system		02 weeks	22/04/2024 To 26/04/2024	<ul style="list-style-type: none"> <li>➤ Legal Metrology system</li> <li>➤ Traceability of the Standards</li> <li>➤ Familiarization with Act and Rules relating with Legal Metrology in India</li> <li>➤ International best practices in Legal Metrology</li> <li>➤ World-wide general acceptance of Legal Metrology</li> <li>➤ Net content determination in packaged commodities</li> </ul>	42,000/-

### Other Information

**Duration of the training Program:** One week/Two week

**Eligibility criteria for the training:** Nominated Foreign Officers of the Legal Metrology departments through proper channel based on Rules/regulations of concerned Ministries/Department of India and source countries.

**Number of the Participant:** - In one course, Number of participants may not exceed 25.

**Course fee:** - Course for one week programs- Rs. 21,000/ participants (in Indian currency) and for Two-week program- Rs. 42,000/participant (in Indian currency)

**Accommodation Charge:** Rs 800/day for single occupancy in Hostel room

**Food Charges:** - Rs 700/day which will include Breakfast, Lunch, Dinner and two time high tea.

### Facility provided at the Institute

Institute has a well modernized Guest House cum executive hostel as well as a Hostel of 80 rooms having single occupancy.

**A.** The Institute provides a well-furnished single room accommodation. it is surrounded by green trees, gardens and sprawling lawns. Institute also provides indoor and outdoor game facilities.

**B.** The food facility is also available at the Mess with modest charge to be borne by the participant.

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