



भारत 2023 INDIA

वसुधैव कुटुम्बकम्

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सत्यमेव जयते



आज़ादी का  
अमृत महोत्सव

# 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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## 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



**Shri Banshi Dhar Konar**  
Professor



**Dr. D. K. Dwivedi**  
Professor



**Shri Manish Prasad**  
Professor



**Shri Aditya Prasad**  
Assistant Professor



**Shri V. K. Pandey**  
Assistant Professor



**Shri Manish Kumar**  
Metrological Assistant



**Shri Pijush Kanti Dana**  
Metrological Assistant



**Shri Himanshu Sahu**  
Metrological Assistant



## 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 | 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 | 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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