

**CENTRAL FERTILIZER QUALITY CONTROL & TRAINING INSTITUTE,
N.H.IV, FARIDABAD**

**TENTATIVE SCHEDULE FOR FIRST eITEC COURSE FOR FOREIGN PARTICIPANTS ON
FERTILIZER QUALITY CONTROL DURING 21.08.2023 TO 01.09.2023**

DATE/ DAY/TIME (As per Indian Standard Time)	SUBJECT	SPEAKER
1	2	3
<u>21.08.2023 (Monday)</u> 1000-1030	Registration	Dr. Ravindra Yadav, Deputy Director
1030-1045	Welcome Address	Sh. Shyam Babu, Director
1045-1100	Inaugural Address	Joint Secy. (INM), DA&FW, Government of India
1100-1130	Vote of thanks	Dr. Ravindra Yadav, Deputy Director
1130-1300	Brief discussion about activities of the Institute & Indian History.	Dr. Ravindra Yadav, Deputy Director
1430-1600	Salient features of Fertilizer Control Order, 1985	Sh. Shyam Babu, Director
<u>22.08.2023 (Tuesday)</u> 1000-1130	Salient features of Essential Commodities Act, 1955 & other acts/orders applicable to fertilizers in India.	Sh. M. Arun, Deputy Director
1130-1300	Status of Fertilizer Quality Control in India & in Developing Countries	Dr. N. Tripathi, Ex-Director, CFQC&TI
1430-1600	Preparation of Standard Solutions and their standardization – check points	Sh. Dinesh Meghwal, Asstt. Director
<u>23.08.2023 (Wednesday)</u> 1000-1130	Specifications of fertilizers and its Tolerance limits.	Dr. Ravindra Yadav, Deputy Director
1130-1300	Fertilizer sampling procedure under F.C.O., 1985 & Check Points.	Sh. Shyam Babu, Director
1430-1600	Policies on Soil Health Management & importance of Soil Health Card in India	Sh. Milind Wadodkar, Chief Soil Survey Officer, SLUSI, New Delhi
<u>24.08.2023 (Thursday)</u> 1000-1130	Importance of Customized fertilisers and their Quality Control at manufacturing level.	Dr. B.B. Singh, Ex. General Manager, Indorama India Pvt. Ltd.
1130-1300	Fertilizer Marketing and distribution system in India	Dr. Naresh Prashad, Director (Marketing), FAI, New Delhi
1430-1600	Principle & methods of analysis of various forms of Nitrogen in fertilizers	Sh. K.K. Dhingra Ex- Director, CFQC&TI

<u>25.08.2023 (Friday)</u> 1000-1130	Principles & Methods of analysis of various forms of phosphorous in fertilisers	Sh. Shyam Babu, Director
1130-1300	Principles & methods of analysis of Potassium in straight & complex fertilizers	Sh. Ajay Kumar, Deputy Director
1430-1600	Principles and methods of analysis of straight micronutrients fertilizers by volumetric methods.	Dr. C.M. Mathavan, Deputy Director
<u>26.08.2023 (Saturday)</u>	HOLIDAY	
<u>27.08.2023 (Sunday)</u>	HOLIDAY	
<u>28.08.2023 (Monday)</u> 1000-1130	Manufacturing of Nitrogenous and Phosphatic Fertilizer and their Quality Control at manufacturing stage.	Dr. N.K. Verma, General Manager, IFFCO, New Delhi
1130-1300	Manufacturing of Micronutrient fertilizer mixtures and its quality control.	Dr. S.S. Ranade, President, MNFM Institute
1430-1600	Follow-up action on Non Standard fertilizers	Sh. Shyam Babu, Director
<u>29.08.2023 (Tuesday)</u> 1000-1130	Principles & methods of estimation of different impurities in various fertilizers.	Dr. Ravindra Yadav, Deputy Director
1130-1300	Import of fertilizers and logistics management of fertilizer movement in India	Sh. Vikram Singh Chauhan, General Manager, CFCL
1430-1600	Principle and estimation of various forms of Sulphur in fertilizers	Sh. Ajay Kumar, Deputy Director
<u>30.08.2023 (Wednesday)</u> 1000-1130	Duties & Responsibilities of Enforcement Officers	Smt. Kanchan, Asstt. Director
1130-1300	Manufacturing of Nano Urea and Nano DAP in India	General Manager (Mktg.) IFFCO, New Delhi.
1430-1600	Principle and estimation of moisture in various fertilisers including analysis of particle size.	Sh. U.R. Donode, Asstt. Director
<u>31.08.2023 (Thursday)</u> 1000-1130	Quality Control of Bio-Fertilizers & Organic fertilizers in India.	Director, NCOF, Ghaziabad
1130-1300	Principles & Methods of analysis of micronutrients by Atomic Absorption Spectrophotometer.	Dr. C.M. Mathavan, Deputy Director
1430-1600	Principles and methods of determination of Neem Oil Content from Urea soluble in Binary Mixture of Acetone & N-Hexane	Sh. Dinesh Meghwal, Asstt. Director
<u>01.09.2023 (Friday)</u> 1000-1300	Fertilizer Quality Control provision in different countries – trainees experience	
1430-1600	Evaluation of Training Programme followed by valedictory address	

Lunch break : 1300 – 1430 hrs.

COURSE CURRICULUM

THEORY (Each class one and half hour)

1. Salient features of Fertilizer Control Order, 1985.
2. Salient features of Essential Commodities Act, 1955 and other acts & orders applicable to fertilizers in India.
3. Status of Fertiliser Quality Control in India and in developing countries.
4. Preparation of Standard Solutions and their standardization – check points.
5. Specifications of fertilizers and its Tolerance limits.
6. Fertilizer sampling procedure under F.C.O., 1985 at check Points.
7. Policies and Programmes on Soil Health Management & Importance of Soil Health Card in India.
8. Importance of Customized fertilisers and their Quality Control at manufacturing level.
9. Fertilizer Marketing and distribution system in India
10. Principle & methods of analysis of various forms of Nitrogen in fertilizers.
11. Principles & Methods of analysis of various forms of phosphorous in fertilizers.
12. Principles & methods of analysis of Potassium in straight & complex fertilizers.
13. Principles and methods of analysis of straight micronutrients fertilizers by volumetric methods.
14. Manufacturing of Nitrogenous and Phosphatic Fertilizer and their Quality Control at manufacturing stage.
15. Manufacturing of Micronutrient fertilizer mixtures and its quality control.
16. Follow-up action on Non Standard fertilizers.
17. Principles & methods of estimation of different impurities in various fertilizers.
18. Import of fertilizers and logistics management of fertilizer movement in India.
19. Principle and estimation of various forms of Sulphur in fertilizers.
21. Manufacturing of Nano Urea and Nano DAP in India.
22. Principles and methods of analysis of Moisture and Particle Size of fertilizers.
23. Quality Control of Bio-Fertilizers & Organic fertilizers in India.
24. Principles & Methods of analysis of micronutrients by Atomic Absorption Spectrophotometer.
25. Principles and methods of determination of Neem Oil Content soluble in Binary Mixture of n-Hexane and Acetone

Course Content

The course includes the lectures on Administrative, Technical & legal aspect of Fertilizer Quality Control like Fertilizer Specification, Duties & responsibilities of Enforcement Officers, Marketing & Distribution of Fertilizers, Trade & Price restrictions, Sampling and analytical procedure, Quick Testing Methods, Functions of Laboratories and legislative requirement of Fertilizer Quality Control including penal provisions and prosecution of offenders etc. It also includes laboratory practical on analysis of various nutrients and Physico-chemical parameters for Quality Control. A short term Field Visits to fertilizer dealers, manufacturing units, Fertilizer Laboratories and important ports etc. are also arranged for on-site field experience.