

**ALL CORRESPONDENCE
MAY BE ADDRESSED TO**

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**Maximum number
of participants** **20**

**Last date for receipt
of nomination** **8th August, 2017**

**Confirmation to
selected candidates** **10th August, 2017**

REGISTRATION FORM

Basic Training on Routine Chemical Analysis
August 21-26, 2017

ICAR – National Dairy Research Institute
Karnal – 132001

Name (Dr/Mr/Ms/Mrs): _____

Designation: _____

Present employer and address: _____

Date of Birth: _____

Sex (Male / Female): _____

Educational Qualification: _____

Mailing Address:-

Fax: _____

Phone: _____

Mobile: _____

Email: _____

(Signature of the applicant)

**Forwarding from Head of Institution /
Competent Authority:**

Candidature of Dr./Mr./Ms./Mrs.

_____ working as

_____, is forwarded for inclusion in the
training programme.

(Signature & seal of the Competent Authority)

Name:

Designation:

**TRAINING PROGRAMME
FOR TECHNICAL STAFF OF
ICAR**

on

**Basic Training on Routine
Chemical Analysis**

21 Aug. to 26 Aug. 2017

Sponsored by

**Human Resource
Management**

**Indian Council of Agricultural
Research**

Organised by

Division Of Dairy Chemistry

**ICAR-National Dairy
Research Institute**

Karnal- 132001 (Haryana)

Website: www.ndri.res.in



BACKGROUND

Food analysis is the discipline dealing with the development, application and study of analytical procedures for characterizing the properties of foods and their constituents. These analytical procedures are used to provide information about a wide variety of different characteristics of foods, including their composition, structure, physico chemical properties and sensory attributes. Good laboratory practices (GLP) embodies a set of principles that provides a framework within which laboratory studies are planned performed, monitored, reported and archived. Working in a chemistry lab requires the personnel with basic knowledge of preparation of routine standard solutions being used and also how to maintain the records in a chemical laboratory and need to be well versed with the instruments available in a laboratory and also have the basic knowledge for the maintenance of the instruments. Many instruments require intermittent checks to maintain their accuracy and proper function. This training programme will provide a platform for the technical staff to gear up for their meaningful role in a laboratory. The course curriculum of this training programme has been designed to upgrade the skills of the technical staff for doing routine operations in a chemical lab more efficiently and also to upgrade the skills of such staff to handle modern analytical equipments

OBJECTIVES

- To acquaint the technical staff with the basic operations in a chemical laboratory.
- To upgrade the skill of technical staff for maintaining the equipments in a chemical laboratory.

COURSE CONTENT

Course curriculum has been designed to comprehensively cover various basic operations in a chemical laboratory. Emphasis will be given on various analytical techniques routinely used in a chemical laboratory including maintenance of instrument. It comprises of theory lectures as well as practical demonstration by resource persons from NDRI and invited personals.

SELECTED TOPICS TO BE COVERED

- Good Laboratory Practices: Rules of handling reagents and solutions
- Storage and disposal of chemicals: safety rules in laboratory
- Requirement of documentation and records as a chemical laboratory
- Calibration of glassware and other small instruments in a chemical laboratory
- Usage of different glassware used in chemistry lab including pipettes, burettes, filtration assembly, distillation of solvents, desiccators.
- How to check the quality of water being used in a chemical laboratory
- Maintenance of equipments in a chemical laboratory
- Usage of routine analytical tools like pH meter spectrophotometer, freeze drier, balances,, centrifuge, pipettes etc.
- Importance of cleaning glassware in laboratory
- Estimation of fat and Solids-not-fat content in milk
- Preparation of sample and general aspects of high pressure liquid chromatography, gas liquid chromatography and atomic absorption spectrophotometer

ELIGIBILITY FOR PARTICIPATION

Technical personnel of ICAR SAUs, CAUs and ICAR funded KVKs with working knowledge of laboratory
The selection of the participants will be based on likely benefits of their participation to the sponsoring Institute/ organization

FEE

There shall be no registration fee for the ICAR employees, while Rs. 5000/- will be charged from the technical staff of SAUs, CAUs and ICAR funded KVKs.

TRAVEL AND ACCOMMODATION

TA, DA, Boarding and Lodging cost will be borne by the sponsoring institute of the trainee. Accommodation will be arranged by NDRI in Scientist Home of NDRI. Participants are advised not to bring family members with them. Participants should make their own transport arrangements to reach the guest house.

Nominations

Interested persons can apply on the attached prescribed format (Registration Form). The duly filled application form should be sent to:

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