



**NATIONAL
DAIRY
DEVELOPMENT
BOARD**

Training Planner 2016-17
Mansinh Institute of Training

*Shri T Nanda Kumar, Chairman and Shri Sangram Chaudhary,
Executive Director, National Dairy Development Board
inaugurated renovated MIT, Mehsana on 24th August 2015*



Chairman's Message



The business environment is changing rapidly, both globally and domestically. With the projected growth in milk and milk products by 2025, free trade, food regulatory environment and consumer's preference for fair price and quality consciousness are also posing new challenges to the cooperative dairy sector. In such a situation cooperative dairy industry is required to improve its operations by adopting modern management approaches and making use of newer technologies and techniques. There will be an increasing demand for investment, new machinery and trained manpower. NDDDB recognises the need for qualified, well trained and motivated personnel for sustainable development and prosperity of the cooperative dairy industry against the backdrop of rapidly changing technological advances. I am happy to note that NDDDB-Mansinh Institute of Training (MIT), Mehsana continues to play a significant role in taking care of training needs of dairy cooperatives.

With best wishes,

T Nanda Kumar
Chairman
National Dairy Development Board

Managing Director's Message



Advanced technological adoption, quality consciousness and excellence will be possible by engaging well trained, competent and dedicated human resources in dairy sector across India. The demand for trained manpower has to be met by optimal adoption of theoretical classroom training and hands-on-training in dairy technology. In this context, NDDDB has taken proactive steps to develop the competency of dairy professionals who can serve the dairy cooperatives. Mansinh Institute of Training, Mehsana will provide learning environment and platform for the dairy professionals to make positive changes at workplace and sustainable dairy business. I am sure that dairy industry at large will be benefited by NDDDB's effort in this area.

With best wishes,

Dilip Rath
Managing Director
National Dairy Development Board

Executive Director's Message



In today's ever changing world, the most important asset for an organisation is its competent, trained and committed human resource. The skills and knowledge need to be upgraded periodically to keep pace with changing technology and innovations. Most benevolent practices for health and safety of consumers have to be adopted to ensure higher standards of quality assurance. Keeping these objectives in mind, NDDDB has designed relevant training courses to augment the capabilities of the dairy cooperatives.

The Mansinh Institute of Training, Mehsana has been renovated by NDDDB to make the learning experience more comfortable. New teaching techniques besides classroom studies and exposure visits to understand Good Manufacturing Practices have been incorporated. I hope this would go a long way in building cutting-edge skills, improving competencies and strengthening core values in service of milk producers by the producers' organisations.

You are invited to depute more and more number of participants to various programmes included in this Training Planner 2016-17.

Sangram Chaudhary
Executive Director
National Dairy Development Board

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Vision

Upgrade the knowledge and technical skills of dairy personnel to improve overall efficiency in Plant Operations, Quality and Food Safety.

Mission

Impart quality training to dairy personnel in consonance with the vision of the National Dairy Development Board by providing state-of-the-art infrastructure and specially develop training programmes in following broad areas:

- Quality & Food Safety
- Dairy Plant Operation and Maintenance
- Minimising Milk Solid Losses & Waste Elimination
- Energy Conservation & Management
- Safety of Plant Personnel
- Conduct on-the-job training

Introduction

Adoption of advanced technology, quality consciousness and excellence in dairy sector across India will only be possible by engaging well trained, competent and dedicated human resources. The demand for trained manpower can be met by an optimal combination of theoretical training and practical exposure to modern dairies. In this context, NDDDB has taken proactive steps to develop competent dairy professionals who can serve dairy cooperatives better. Mansinh Institute of Training, Mehsana provides an excellent learning environment and platform for the dairy professionals to make positive changes at workplace for sustainable dairy business.

The success and growth of Dairy Cooperatives across the country led to a need to improve efficiency in plant operations for Dairy Cooperatives to remain competitive. This would also ensure better remuneration to the milk producers. The need conceptualized into setting-up of a national level technical training centre - Mansinh Institute of Training, with its foundation stone laid by Late C. Subramanian, erstwhile Minister for Planning, Gol on Oct 22, 1971. Till date MIT has trained more than 14000 dairy personnel.

Faculty

MIT has a pool of knowledgeable and experienced professionals from industry, government bodies, renowned academic institutes and private consultants for facilitating various training sessions to provide up to date knowledge in the relevant field and also workable solutions to the problems faced.





Andragogy

- Training at MIT is designed considering the needs of dairy plants and the latest technology available in the dairy industry.
- Training includes brainstorming, case studies, experience-sharing and group exercises thereby making participants to think beyond the mundane norms and procedures.
- The classroom session comprises of ice-breaking session, Q&A session, and group/individual presentations. The sessions are delivered by the experienced professionals from dairy industry & educational institutes.
- Dairy plant visits for exposure to latest technological developments, hands-on training at MIT workshop, e-learning and 3D module.

Post training support to participants

- After completion of a training programme, participants are assisted with technical support as per requirement.
- There is a web-based dairy knowledge portal where participants can share problems faced and improvements implemented in respective dairy plants post training.

Infrastructure

- Picturesque campus with peaceful environment spread over an area of 17.5 acres, with gardens, trees and a variety of flora and fauna.
- Two modern air-conditioned classrooms: with a combined seating capacity of 50 participants including latest teaching aids to make learning a pleasant and memorable experience.
- A good lodging facility for participants.
- In-house Mess: Hygienic food is provided to participants.
- Workshops with demo and functional models of dairy equipment for better understanding of classroom sessions.
- Recreation room: A comfortable place for participants to sit together & discuss day's proceedings or simply relax watching TV or reading newspapers and latest magazines.
- Sports facilities: Indoor and outdoor games are available for participants.
- Library: A well-equipped library with training manuals & related dairy journals.

Training Calendar 2016-17

Month	TP No.	Training programmes	No. of days	Date	Last date of registration
April'16	1	Minimizing Milk Solid Losses in Dairy Industry	5	4/4-8/4	31-3-16
	2	Clean Milk Production, Operation and Maintenance of BMCU and AMCU	5	11/4-15/4	7-4-16
	3	Efficient Steam Generation and Distribution (Boiler) in Dairy Industry & Cattle Feed Plant (CFP)	5	18/4-22/4	13-4-16
	4	Hygiene & Sanitation for Dairy Plants	5	25/4-29/4	19-4-16
	5	Customized Training Programme/OJT	4-5	25/4-29/4	19-4-16
May'16	6	Effective Milk Processing & Packaging	5	2/5-6/5	27-4-16
	7	Alternate Energy Resources Utilization in Dairy Industry & CFP	5	9/5-13/5	4-5-16
	8	Basics of Dairy Technology	5	16/5-20/5	11-5-16
	9	Milk Drying Operation	5	23/5-27/5	18-5-16
	10	ETP and Waste Management in Dairy industry	4	24/5-27/5	18-5-16
June'16	11	Application of Membrane Technology in Dairy industry	4	31/5-3/6	25-5-16
	12	Energy Conservation and Management	4	7/6-10/6	1-6-16
	13	Customized Training Programme/OJT	4	14/6-17/6	8-6-16
	14	Ice-Cream Manufacturing & Packaging	4	14/6-17/6	8-6-16
	15	Clean Milk Production, Operation and Maintenance of BMCU and AMCU	5	20/6-24/6	15-6-16
	16	Indigenous Milk Products	5	27/6-1/7	22-6-16
July'16	17	Quality & Food Safety for Dairy Plant	5	4/7-8/7	29-6-16
	18	Efficient Operation of Refrigeration Plants	5	11/7-15/7	5-7-16
	19	Customized Training Programme/OJT	5	18/7-22/7	13-7-16
	20	Finance for non-finance Executives	3	19/7-21/7	13-7-16
	21	Hygiene & Sanitation for Dairy Plants	5	25/7-29/7	20-7-16
Aug'16	22	Dairy Plant Management	25	1/8-25/8	18-7-16
	23	Instrumentation & Automation in Dairy Industry	4	2/8-5/8	25-7-16
	24	Clean Milk Production, Operation and Maintenance of BMCU and AMCU	5	8/8-12/8	1-8-16
	25	Occupational Safety and Prevention of Health Hazards in Dairy & CFP Plants	3	29/8-31/8	16-8-16
Sept'16	26	Effective Milk Processing & Packaging	5	5/9-9/9	25-8-16
	27	Customized Training Programme for Vidya Dairy	5	12/9-16/9	-
	28	Total Productive Maintenance	5	19/9-23/9	8-9-16
	29	Packaging of Dairy Products	4	27/9-30/9	15-9-16
Oct'16	30	Efficient Operation of Refrigeration Plants	5	3/10-7/10	22-9-16
	31	Clean Milk Production, Operation and Maintenance of BMCU and AMCU	5	17/10-21/10	5-10-16
	32	ETP and Waste Management in Dairy Industry	4	25/10-28/10	13-10-16
	33	Quality & Food Safety for Dairy Plant	5	24/10-28/10	13-10-16
Nov'16	34	Leadership and Team Building for Dairy and Cattle Feed Plant Professional	3	2/11-4/11	24-11-16
	35	Customized Training Programme for Vidya Dairy	5	7/11-11/11	-
	36	Hygiene & Sanitation for Dairy Plants	5	21/11-25/11	11-11-16
	37	Customized Training Programme for Vidya Dairy	5	28/11-2/12	-



Month	TP No.	Training programmes	No. of days	Date	Last date of registration
Dec'16	38	Energy Conservation & Management	5	5/12-9/12	25-11-16
	39	Total Quality Management	4	6/12-9/12	28-11-16
	40	Effective Milk Processing & Packaging	5	19/12-23/12	9-12-16
	41	Application of Membrane Technology in Dairy Industry	4	27/12-30/12	16-12-16
Jan'17	42	Efficient Steam Generation and Distribution (Boiler) in Dairy Industry & Cattle Feed Plant (CFP)	4	3/1-6/1	23-12-16
	43	Electrical Distribution, Safety and Maintenance in Dairy Industry	4	17/1-20/1	9-1-17
	44	Customized Training Programme/OJT- on AMCU and EMT	5	23/1-27/1	13-1-17
Feb'17	45	Quality & Food Safety for Dairy Plant	5	6/2-10/2	27-1-17
	46	Customized Training Programme/OJT	5	13/2-17/2	1-2-17
	47	Clean Milk Production, Operation and Maintenance of BMCU and AMCU	5	20/2-24/2	10-2-17
	48	Instrumentation & Automation in Dairy Industry	4	27/2-2/3	16-2-17
Mar'17	49	Total Productive Maintenance	5	6/3-10/3	24-2-17
	50	Minimizing milk solid losses	5	13/3-17/3	2-3-17
	51	Alternate Energy Resources utilization in Dairy Industry	5	20/3-24/3	10-3-17
	52	Customized Training Programme/OJT	5	27/3-31/3	10-3-17

Training programmes at MIT

Minimizing Milk Solid Losses in Dairy Industry (Duration: 5 Days)

Objective:

- To maximize profit by reducing milk solid losses leading to improved financial health of dairy and make dairy business sustainable.
- To enable participants to identify major areas of milk solid losses and take steps to minimize losses.

Target Group: Dairy plant professionals

Contents:

- ⊙ Identifying areas and quantum of losses in dairy plants.
- ⊙ Recovery systems and its benefits
- ⊙ GMP for minimizing losses
- ⊙ Accounting and record-keeping of milk solids losses.
- ⊙ Case studies and classroom calculations
- ⊙ Dairy plant(s) visit

Clean Milk Production, Operation & Maintenance of AMCU and BMCU (Duration: 5 Days)

Objective:

- To enable participants to understand importance of clean milk production & its implementation.
- To impart knowledge of operation & maintenance of AMCU and BMCU.

Target Group: Field Supervisors, Extension officer, dairy professional working in areas related to Bulk milk cooler unit and Automatic milk Collection unit.

Contents:

- ⊙ CMP and its importance in a supply chain.
- ⊙ Basic concept of milk cooling, Types of Bulk Milk Coolers (BMCs)
- ⊙ Operation & Maintenance, troubleshooting of BMC
- ⊙ Components of Automatic Milk Collection Unit (AMCU).
- ⊙ Do's and Don'ts of AMCU / BMCU operation
- ⊙ Study visit to Village Dairy Co-operative Society

Efficient Steam generation and Distribution (Boiler) in Dairy Industry & Cattle Feed Plant (CFP) (Duration: 5 Days)

Programme Objective:

- To understand Steam generation and HP /LP distribution networks
- Energy conservation and cost reduction in steam generation.

Target Group: Dairy plant professionals.

Contents:

- ⊙ Component of boilers & combustion process.
- ⊙ Steam generation & distribution, quality of steam and blow-down.
- ⊙ Parameters affecting performance, efficiency & losses of boiler.
- ⊙ Boiler feed water treatment
- ⊙ Safeties in boiler operation
- ⊙ Visit to boiler section of a dairy plant

Hygiene & Sanitation for Dairy Plants (Duration: 5 Days)

Objective:

- To upgrade knowledge of Hygiene and Sanitation in dairy industry
- Implementation of Hygiene and Sanitation in dairy plants

Target Group: Dairy plant professionals

Contents:

- ⊙ Importance of Hygiene & Sanitation in Dairy Industry
- ⊙ Action mechanism of cleaning chemicals used in Dairy Plant
- ⊙ Types of cleaning chemicals & Sanitizers used in Dairy Plants
- ⊙ CIP systems used in Dairy Plants
- ⊙ Parameters for checking effective Cleaning and Sanitation in Dairy Plant
- ⊙ Dairy plant(s) visit

Effective Milk Processing & Packaging (Duration: 5 Days)

Objective:

- To improve processing efficiency, minimize losses, leakages and comply with the quality parameters
- O & M, trouble-shooting of milk packaging machines

Target Group: Dairy plant professionals



Contents:

- ⊙ Different types of milk collection, storage and processing equipments.
- ⊙ Operation and maintenance of milk processing and packaging equipments.
- ⊙ Regulations pertaining to Weights & Measures
- ⊙ Minimizing milk and packaging material losses and record keeping
- ⊙ Energy conservation in milk processing and packaging operation
- ⊙ Dairy plant(s) visit

**Alternate Energy Resources utilization in Dairy Industry & CFP
(Duration: 5 Day)**

Objective:

- To know about alternate energy resources and its possible application in dairy plants

Target Group: Dairy and CFP professionals

Contents:

- ⊙ Alternate sources of energy
- ⊙ Application of alternate sources of energy
- ⊙ Operation maintenance of solar panels and collectors
- ⊙ Utilization of waste thermal energy
- ⊙ Visit to solar power plant

Icecream Manufacturing and Packaging (Duration: 4 Days)

Objective:

- Icecream as a popular and value added product
- Effective manufacturing and packaging of icecream

Target group: Dairy plant professionals

Contents:

- ⊙ Various milk products and their market shares
- ⊙ Current status of icecream industry its classification and standards
- ⊙ Ingredients selection and preparation of icecream mix and ice-cream
- ⊙ Icecream manufacturing process and equipment used.
- ⊙ Quality control parameters for icecream manufacturing
- ⊙ Packaging and Shelf-life of icecream
- ⊙ Dairy plant(s) visit

Basics of Dairy Technology (Duration: 5 Days)

Objective:

- To understand fundamentals of milk processing and product manufacturing.

Target group: Non-Dairy Technologist.

Contents:

- ⊙ Fundamentals of Dairy technology
- ⊙ Applicable quality and Food safety standards
- ⊙ Good Manufacturing Practices and Good Hygiene Practices in dairy

- ⊙ Milk processing and value-added products manufacturing such as:
 - Liquid milk processing
 - Fermented milk products i.e. Curd, buttermilk, cheese, lassi
 - Fat rich dairy products i.e. butter and ghee
 - Frozen dairy products i.e. Ice cream
 - Condensed & Dried Milks
 - Long Life Milk & Milk product
 - Indigenous dairy products
- ⊙ Dairy plant(s) visit

Milk Drying Operation

(Duration: 5 Days)

Objective:

- Knowhow of milk condensing and drying plants
- Manufacturing of condensed and dried milk products

Target Group: Dairy plant professionals

Contents:

- ⊙ Concept of milk condensing and its importance
- ⊙ Types, classification and working of evaporators
- ⊙ TVR & MVR
- ⊙ Dried milks: Classification, Standards and Additives in milk powder
- ⊙ Types, classification and working of dryers
- ⊙ Powder recovery systems
- ⊙ Quality control tests for milk powder
- ⊙ Dairy plant(s) visit

ETP and Waste Management in Dairy Industry

(Duration: 4 Days)

Objective:

- Waste management in dairy industry
- O & M and trouble-shooting of ETP

Target Group: Plant professionals

Contents:

- ⊙ Sources of effluent in dairy plant
- ⊙ Treatment of effluent
- ⊙ Statutory provisions and standard parameters for disposal of Effluent
- ⊙ Utilization of biogas in dairy plant
- ⊙ O & M of ETP
- ⊙ Dairy plant(s) visit

Application of Membrane Technology in Dairy Industry

(Duration: 4 Days)

Objective:

- Knowhow of Membrane technology
- O & M and trouble-shooting of membrane processing



Target Group: Plant professionals

Contents:

- ⊙ Membrane, its types and membrane module
- ⊙ Membrane processes: MF,UF,NF, RO and ED
- ⊙ Application of membrane technology in cheese making and whey processing
- ⊙ Cleaning and sanitation of membrane processing plant
- ⊙ Application of membrane technology in water treatment
- ⊙ Dairy plant(s) visit

Energy conservation & Management

(Duration: 4 Days)

Objective:

- Effective application of Energy conservation techniques.
- Energy management in dairy industry

Target Group: Dairy Plant professionals

Contents:

- ⊙ Sources of energy
- ⊙ Conservation of energy in various sections of dairy plant and utilities
- ⊙ Energy efficient equipment
- ⊙ Non-conventional sources of energy
- ⊙ Study visit of SPRERI / Solar Park/ Dairy Plant

Indigenous Milk Products (Duration: 5 Days)

Objective:

- Upgrade knowledge of indigenous milk products
- Manufacturing indigenous milk products

Target Group: Dairy plant professionals

Contents:

- ⊙ Indigenous milk products: Classification and Standards
- ⊙ Heat desiccated & Heat-acid coagulated indigenous milk products and available technologies
- ⊙ Cultured/Fermented indigenous milk products manufacturing
- ⊙ Fat rich indigenous milk product manufacturing
- ⊙ Quality control parameters for indigenous milk products
- ⊙ Packaging and Shelf-life of indigenous milk products
- ⊙ Dairy plant(s) visit

Quality & Food Safety for Dairy Plant

(Duration: 5 Days)

Objective:

- Quality and Food safety standards in dairy industry

Target Group: Dairy plant professionals

Contents:

- ⊙ Quality and Food-safety management system
- ⊙ Total Quality Management concept and principles
- ⊙ Microbiological standards in dairy industry
- ⊙ FSSAI standards for dairy industry
- ⊙ Types of Cleaning chemicals and sanitizers
- ⊙ Milk adulterants and their detection
- ⊙ Study visit of QA Laboratory

Efficient Operation of Refrigeration Plants (Duration: 5 Days)

Objective:

- Introduction to refrigeration systems, O & M and troubleshooting
- Energy conservation in refrigeration plant and innovative solutions

Target Group: Dairy plant professionals

Contents:

- ⊙ Refrigeration cycle & different types of refrigerants
- ⊙ Types of evaporators, compressors, condensers, cooling tower
- ⊙ Efficient operation of refrigeration plant and Safety precautions
- ⊙ Refrigerant charging, air-purging, oil separation
- ⊙ Breakdown and Preventive maintenance
- ⊙ Energy conservation techniques in refrigeration plant operation
- ⊙ Study visit of refrigeration section of a dairy plant

Finance for Non-finance Executives (Duration :3 days)

Objective:

- Basic understanding of finance for non finance executives of dairy plant and CFP professionals

Target Group: Dairy plant professionals

Contents:

- Understanding Dairy Balance sheet & P&L account
- Finance for non-finance (Dairy Financing) management
- Capital budgeting, working capital & milk pricing
- Dairy Costing

Dairy Plant Management (Duration: 25 Days)

Objective:

- Focus on milk production, processing and value addition in a cost effective manner
- Optimal utilization of resources



Target Group: Dairy plant professionals (Officer, Executive and Manager)

Contents:

1. Sustainable dairy plant operations
 - ⊙ New developments in energy & water management
 - ⊙ Advances in automation in dairy industry
 - ⊙ Waste management in dairy sector
 - ⊙ Total productive maintenance
 - ⊙ Environmental safety management system
2. Product process development
 - ⊙ Cheese
 - ⊙ Ice cream
 - ⊙ Indigenous dairy products
 - ⊙ Milk processing and packaging
3. Food-safety quality and regulatory environment
 - ⊙ Overview of food regulations
 - ⊙ Food safety & Quality management systems
4. Financial and physical performance analysis of dairy cooperative industry
 - ⊙ Finance for non-finance personnel
 - ⊙ Costing tools and techniques for managerial decision-making
 - ⊙ Areas of cost reduction, cost of quality and Kaizen
 - ⊙ Major areas for decision making
 - ⊙ Project Management
5. Human resource development
 - ⊙ Legal compliances in dairy industry
 - ⊙ Business process re-engineering
 - ⊙ Process analysis/management & operation management
 - ⊙ Leadership, team building, motivation & conflict management
 - ⊙ Enhancing innovations & its management
 - ⊙ Stress Management
6. Practical/field visits
 - ⊙ Equipment operations and maintenance
 - ⊙ Energy management
 - ⊙ Product process development
 - ⊙ Plant automation

Total Productive Maintenance

(Duration: 5 Days)

Objective:

- Types of maintenance and relevance of TPM
- Concept and implementation of TPM

Target Group: Dairy plant professionals

Contents:

- ⊙ Concept & implementation of TPM in a dairy plant
- ⊙ Overall Equipment Efficiency (OEE)
- ⊙ Importance of maintenance, industrial engineering approach, preventive, predictive and breakdown maintenance
- ⊙ Maintenance practices in dairy industry
- ⊙ Study visit of dairy plant(s)

Occupational Safety and Prevention of Health Hazard in Dairy & CFP Plants (Duration: 3 Days)**Objective:**

- Concept of Occupational Health and safety Hazard in Dairy and Cattle Feed Plants
- Implementation of OHSAS in Dairy and CFP its advantages.

Target Group: Dairy plant professionals

Contents:

- ⊙ Hazard of operations in a Dairy and CFP.
- ⊙ Legal and regulatory requirement of OHSAS.
- ⊙ Concept of safety and health hazard in Dairy and CFP
- ⊙ PPEs used during operation and maintenance
- ⊙ Basic First Aid in case of emergencies/accidents
- ⊙ Dairy plant(s) visit

Packaging of Dairy product (Duration: 4 Days)**Objective:**

- Types of packaging material and methods of packaging of dairy products

Target Group: Dairy plant professionals

Contents:

- ⊙ Product labeling and statutory requirement.
- ⊙ Different type of packaging material used for dairy products.
- ⊙ Various quality checks for packaging material.
- ⊙ Innovation in packaging material.
- ⊙ Roll of packaging material in product shelf life.
- ⊙ Study visit of dairy plant(s)

Leadership and Team Building for dairy and CFP professional (Duration: 3 Days)**Objective:**

- Leadership and team building for development of dairy industry

Target Group: Dairy plant and CFP professionals



Contents:

- ⊙ Leadership & managing teams
- ⊙ Human Resource Development- need of conflict management
- ⊙ Human Resource Development- need of knowledge & skill upgradation
- ⊙ Steven Covey's 7 habits for personal & organizational development
- ⊙ Study visit of dairy plant(s)

Total Quality Management

(Duration: 4 Days)

Objective:

- Upgrade available resources and persevere for their continual improvement
- Guidelines for implementation of TQM tools at workplace

Target Group: Dairy plant professionals

Contents:

- ⊙ TQM philosophy, importance and its benefits
- ⊙ Implementation of TQM in dairy
- ⊙ Kaizen, 5's Methodology, Quality control circle, Small group activity
- ⊙ PDCA (Plan, Do, Check, Act)
- ⊙ Statistical tool for process improvement
- ⊙ Dairy plant(s) visit

Electrical Distribution, Safety and Maintenance in Dairy Industry

(Duration: 4 Days)

Objective:

- Introduction to electrical distribution networks and concept of electrical safety and troubleshooting

Target Group: Dairy plant professionals

Contents:

- ⊙ Electrical substation & distribution system
- ⊙ Application of single and three phase motors
- ⊙ Autotransformer, star-delta and DOL starters, testing and polarity test. Air, oil and vacuum circuit breakers, control and power wiring.
- ⊙ Control of maximum demand, improving power factor, capacitor assessment , economic lighting in dairy plant
- ⊙ Interlocking of equipment, solenoid control, single phasing preventer, timer switches
- ⊙ Safety norms for electrical systems and earthing of systems
- ⊙ Operation, maintenance and troubleshooting of DG set
- ⊙ Dairy plant(s) visit

Instrumentation & Automation in Dairy Industry (Duration: 4 Days)

Objective:

- To understand the concept of Instrumentation, control through PLC and DCS system including MIS in modern dairy plants

Target Group: Dairy plant professionals

Contents:

- ⊙ History & Basics of Instrumentation & automation
- ⊙ Need and importance of Instrumentation & automation
- ⊙ Integration of Instrumentation & automation for MIS system in Dairy plant
- ⊙ Recent trends & developments in Instrumentation & automation
- ⊙ Dairy plant(s) visit



Customized training programme / On-the-job training

Based on milk unions' requirement, MIT conducts training programmes on different areas of dairy operation. MIT has organized many such training programmes based on needs of milk unions/educational institutes. Every year MIT organizes customized training programme for Dairy Science college students of Vidya Dairy.

For on-the-job training programmes, a client has to arrange to & fro travel, board & lodging facilities for the faculty.

Training charges

- The training charges applicable shall be ₹1064/- (Including Service Tax@ 14% and Swachh Bharat Cess @ 0.5%) per participant per day. (For 3 days - ₹3192/-, for 4 days - ₹4256/- & for 5 days - ₹5320/-). Please note that any change in Government taxes, levies will impact training charges accordingly.
- The training charges are inclusive of board & lodging and travel charges to plant/DCS.
- All efforts will be made to inform changes in fees, if any, to participants/milk union beforehand. However, charges effective at the time of training will be applicable.
- DD or Cheque (at par) towards training charges should be drawn in favour of "National Dairy Development Board" payable at Mehsana.



Nomination

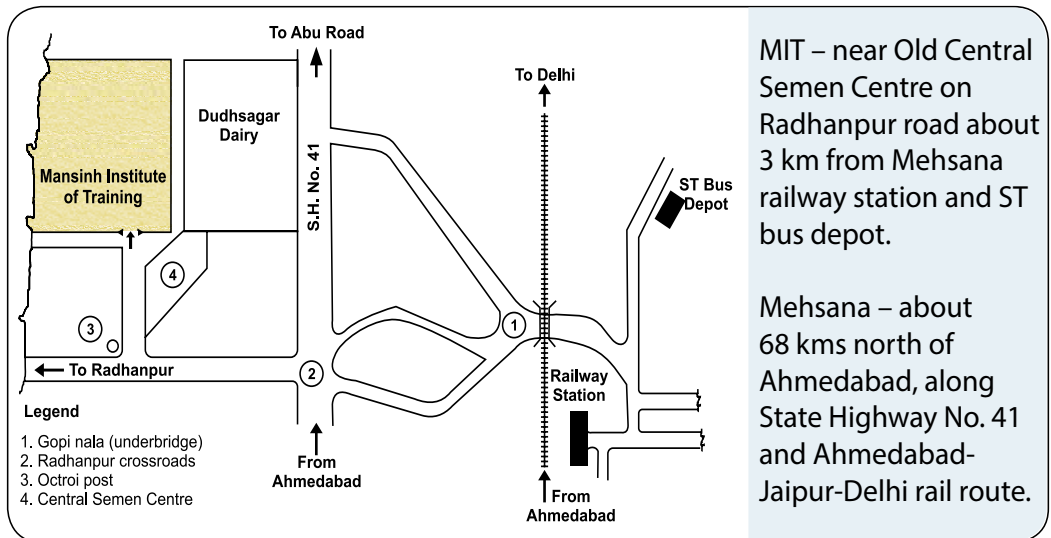
Nominations complete with name, designation and other relevant details of the participants *should be sent on or before the specified last registration date mentioned against each particular programme.*

The nomination form is enclosed.

The cancellation of nomination needs to be intimated before the registration date.

Please *ensure that candidates are deputed for training programmes only after receiving a prior confirmation from MIT* (training dates might change due to unavoidable circumstances or even cancelled). NDDB will not be liable for any reimbursement of expenditure in case the programme is not confirmed by the participant before departure.

Location of MIT





**National Dairy Development Board
Mansinh Institute of Training**

Name of training programme: _____

Duration: _____

NOMINATION FORM

NAME OF THE MILK UNION:

NAME OF THE PARTICIPANT: MR./MRS./MS.

GENDER: MALE FEMALE **AGE**

DESIGNATION:

QUALIFICATION:

EXPERIENCE: YEARS

MAIN RESPONSIBILITIES/ DUTIES IN DAIRY PLANT:

- 1.
- 2.
- 3.

CONTACT DETAILS OF THE PARTICIPANT:

EMAIL ID:

CONTACT NO.:

AMOUNT PAID:

CHEQUE/DD*/E-BANKING NO.:

DATE OF PAYMENT:

**Cheque/DD to be drawn in favour of "National Dairy Development Board" payable at Mehsana*

**Signature of Managing Director
Seal of the Milk Union**

Nominations to be addressed & emailed to:

Principal,
Mansinh Institute of Training,
National Dairy Development Board,
Post Box No. 2, Radhanpur Road, Mehsana 384002,
Gujarat, India, Ph: 02762-252589 • Email: sssinha@nddb.coop

*Mansinh Institute of Training
Glimpses...*





Mansinh Institute of Training
National Dairy Development Board
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Gujarat, India, Ph: 02762-252589
www.nddb.coop