

# Course Guideline On

## ‘Food Security’ Training

Duration: 03-07 March, 2019



**National Agriculture Training Academy (NATA)**  
**Ministry of Agriculture**  
**Gazipur-1701**  
**[www.nata.gov.bd](http://www.nata.gov.bd)**

# **Training on ‘Food Security’**

**Duration: 03-07 March, 2019**

## **Course Management**

- Course Advisor : Dr. Md. A. Salam  
Director General (In charge)  
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DD (Ag. Extension & Rural Eco.), NATA
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- : 2. Naima Sultana  
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# **Introduction to National Agriculture Training Academy (NATA)**

## **1.1 The Academy**

National Agriculture Training Academy (NATA) is the apex training institute for human resource development of officers (grade-9 and above) under the Ministry of Agriculture (MoA) for providing training on diversified fields of professional interest in agriculture sector. The Academy organizes various training programs related to modern agricultural technologies and office management issues throughout the year. The academy is established in Gazipur as Central Extension Resources Development Institute (CERDI) on 14 March 1975 with the financial assistance of Japan International Cooperation Agency (JICA). Afterwards, on 27 June 1984, CERDI was undertaken to the Training Wing of Department of Agricultural Extension (DAE). On 03 April 2013, Government of the People's Republic of Bangladesh abolished CERDI and established NATA as an independent organization of MoA and on 07 June 2014, NATA has been started its journey as a training academy.

After emergence as NATA, the Academy began its training functions with only 10 faculty members. Though Government approved strength is 184, at present NATA has 84 staff members including 30 faculty members.

## **1.2 Vision**

National Agriculture Training Academy becomes a center of excellence for developing competent human resources in agriculture sector.

## **1.3 Mission**

We are pledged to achieve the shared vision through:

- i. Development of skilled human resources of all organizations under MoA by imparting quality training, research and development and publications;
- ii. Enhancement of linkage between education, research and extension to endow agriculture service delivery system;
- iii. Building a network with reputed institutions of home and abroad for organizational capacity development; and
- iv. Fostering a culture of continuous learning for development of knowledge-intensive agriculture service.

## **1.4 Functions**

The NATA has been entrusted to perform the following functions:

- i. Develop skilled human resources of the government, semi-government, autonomous organizations under MoA through imparting training program on modern and sustainable agriculture technology and office management topics;
- ii. Transfer modern and sustainable agriculture technology developed by the research organizations for obtaining higher yield of crops of the farmers;
- iii. Conduct demonstration, adaptive research and research of proven technologies;

- iv. Impart all sorts of in-service training with special emphasis on induction, foundation and senior staff course;
- v. Exchange publications, participants and resource persons in seminars, workshops, conferences and training among the stakeholders;
- vi. Advice government and other organizations on training, achieving food and nutrition security, ICT, transfer of agriculture technology, agro-based industries and conservation environments etc.;
- vii. Help government and policy makers in framing and analyzing agricultural policies;
- viii. Conduct different training activities of academy in consonance with provision of the public administration training policy, 2003; and
- ix. Perform all kinds of duties directed by the government.

## **1.5 Location of the Academy**

The Academy is about 25 km away from the capital city Dhaka and 3 km away from Joydevpur Chandana Chowrasta towards Gazipur district head quarter. It is located adjacent to Bangladesh Rice Research Institute (BRRI) and occupied 49 acres of land. The academy provides the trainees an ample scope to get free access to the adjacent institutions like Bangladesh Agriculture Research Institute (BARI), Bangladesh Rice Research Institute (BRRI), Seed Certification Agency (SCA), Bangabondhu Sheikh Mujibur Rahman Agricultural University (BSMRAU), Telecommunication College, and other government offices in Gazipur.

## **1.6 Facilities**

### **1.6.1 Physical Facilities**

The Academy is well equipped with some physical facilities to run the training programs successful though it began its voyage recently. Existing facilities of the academy are as follows.

- Office building-2
- Class room- 3
- Laboratory (Subject wise technical)
- Plant protection museum- 1
- Conference room- 1
- Auditorium-1
- Dormitory- 4
- Cafeteria- 1
- Greenhouse- 3
- Workshop-1
- Mosque-1

### **1.6.2. Digital Computer cum Language Lab. and IT facilities**

There is one Digital Computer cum Language Lab in the Academy. It is located on the 1<sup>st</sup> floor of the Administrative building. IT facilities available include LAN and Wi-Fi and the whole campus under Wi-Fi coverage. To expedite foreign language learning, NATA set up a Digital Computer cum Language Lab. as part of the Academy's drive for capacity building of government officials. Participants can avail the opportunity of learning the foreign language while they stay in NATA.

### **1.6.3 Recreational Facilities**

The Academy has a recreation room with color T.V in the dormitory. The daily newspapers are also available in recreation room for the participants.

### **1.6.4 Linkage with other Training Organizations**

NATA maintains good relations with other training Academies in the country including BPATC, RPATC,BCS Administration Academy, BIAM, FIMA and so on. NATA has a plan to collaborate with international training institutes for improvement its human resources. NATA also collaborate with national research organizations for research in agriculture sector.

### **1.7 Evaluation**

Course coordinator and asst. course coordinators are given the responsibility to evaluate the participants. The course is evaluated during pre and post training situation. Furthermore, the participants are given the chance to evaluate the resource speakers by using a prescribed format.

### **1.8 Sessions**

Every day the session is started at 9.00 am in the morning and ends at 5:00 pm in the afternoon. There are two health breaks started at 10.30 am for snacks and 03.30 pm for tea as well as lunch with prayerbreak at 01.05pm respectively. Participants are advised to attend in the class in time without fail for avoiding any kinds of disciplinary action.

#### **Daily Schedule**

<b>Activities</b>	<b>Duration</b>
Recap	09.00-09.15
1 <sup>st</sup> Session	09:15-10:15
2 <sup>nd</sup> Session	10:15-11:15
Tea Break	11:15-11:30
3 <sup>rd</sup> Session	11:30-12:30
4 <sup>th</sup> Session	12:30-01:30
Prayer & Lunch	01:30-02:30
5 <sup>th</sup> Session	02:30-03:30
6 <sup>th</sup> Session	03:30-04:30
Tea Break	04:30-05:00

### **1.9 Norms to be followed during the training**

- No casual leave is allowed during training period;
- Participants living in the dormitory are advised to follow the norms of the dormitory;
- The campus area is a “Non Smoking Zone”. Participants are advised to refrain from smoking inside the Academy; and
- Participants are not allowed to enter the dormitory after 10:00pm at night.

# Course at a glance

## Objective of the Course:

One of the fundamental rights of the citizens stipulated in the Bangladesh Constitution is food security for all. Food security exists when all people, at all times, have access to sufficient, safe and nutritious food to maintain healthy and productive lives. The key elements of Food security are: a) availability of enough food from domestic production and/or imports to meet the demand, b) access of the food to all people at all times through enough income and affordable prices, c) proper hygiene and sanitary practices and safe water for utilization of food to have optimum impact on health and nutrition, and d) a regulatory framework in place and its proper implementation for controlling contamination to ensure food safety.

Trainees will study policy documents and institutional setup of National Food Policy'2006 (NFP) and Food Safety Authority 2013 in Bangladesh including those related to key goals, strategies and challenges of the food security system and become familiar with methods and process formulating and implementing food security policies in Bangladesh.

**Target population:** Officer of 9<sup>th</sup> & above grade under the Ministry of Agriculture.

**Duration of each session:** 60 minutes.

## Prerequisites of the course:

- To attend in the training class in time;
- To be present at least 99% of the classes otherwise certificate may not be awarded;
- Maintain the norms in dormitory and cafeteria;
- Absent from any session is not allowed without prior permission from the course coordinator even in case of emergency;
- Enthusiastic to learn and share ideas in training session; and
- Cell phone must be kept in silent mode.

## Course Contents

SL No.	Title of the contents
1	Historical overview of Food security in Bangladesh; World Hunger and Food security: Challenges & opportunities
2	National Food Security Policy (NFSP); National Food safety Act'2013 and Food safety authority'2015 and its institutional framework
3	Modern Technologies of Fruits & Vegetable production: Ensuring nutritional security and uplifting poverty of rural livelihood
4	Food security and its different concept; Food security in context of Bangladesh & Global perspective
5	World Hunger and Food security: Challenges & Opportunities
6	Rice development strategies towards food security in 2050, Vision of Bangladesh
7	Threat of climate change & disaster in food security; adaptable technologies to face the challenges of climate change in Bangladesh
8	Threat to Food security and Strategies for improving food security; Mechanism to promote Food Security in Bangladesh
9	Sustainable Agriculture development in assurance of food security: achievement, challenges, opportunities
10	Ensuring Food safety through food chain: Heavy metal contamination; Use of chemicals, Hormones in Fruits & vegetables and its residual effect
11	Strategies of sustainable production of wheat, maize & minor cereal crops for maintaining food security in Bangladesh
12	Deficiency symptoms, BMI and Sources of micronutrient in Human Body
13	SDG strategies for Sustainable development of Bangladesh
14	Genetically Modified (GM)Crops, Its impact on food security & Human health
15	Gender & Food Security: Women's role in Food Hygiene and Nutritional safety in household
16	Livestock production: its availability in food security & nutrition safety for growing population of Bangladesh
17	Field Visit Post Harvest Division of BARI, Gazipur
18	Mushroom Development: Nutrition & Food Security
19	Post-harvest handling, Food Processing and Preservation and its importance for food security (Lab Visit)
20	Food Consumption, Balanced diet & Nutritional demand; Food adulteration and its effect on public Health



21	National Food safety Act, 2013 and Food safety authority, 2015 and its institutional framework for food control system in Bangladesh
22	Food security and Nutritional situation in Bangladesh; Potential risk of Public health due to Malnutrition
23	Balance diet and its importance for maintenance of Nutrition; Planning of nutritional balanced diet for different Age & Sex
24	Food safety Act- 2013
25	Food Safety Authority 2015 for ensuring Safe Food and Food security
26	Perspective Plan of action & Issues of Access to Food in Developing countries like Bangladesh (Group work & Presentation)
27	Food Hygiene & Food habit change for ensuring Good health and Long life

### List of Resource Persons

SL. NO	NAME	DESIGNATION	MOBILE NO	EMAIL
01	Dr. Abu Sayed	Professor, BIRDEM	01819-409480	Sayed1950@gmail.com
02	Md. Hamidur Rahman	Ex DG, DAE, Dhaka	01711-803695	
03	A.K.M. Nurul Afsar	National Team Leader, IFF-B for Safe Food Project	01760-660422	akm.afsar@fao.org
04	Dr. Golam Rabbani	ULO, DLS		
05	Dr. Md. Monirul Islam	Director Nutrition, BARC, Dhaka	01777-686866	
06	Dr. Md. Lutfur Rahman	Director (Research.), BARI, Gazipur	01716063808	
07	Md. Hafiz Uddin, PSO, BARI. Gazipur	PSO, BARI. Gazipur Post Harvest Division	01715-063263	
08	Dr. Sahidur Rashid Bhuiyan	Prof. G&PB, Ex. Pro-vice Chancellor, SAU	01552-447945	
09	Dr. Moinus Salam	International Consultant Cymmyt, Bangladesh	01855-871938	
10	Dr. Prof. Md. Mizanul Hoque Kazal	Dean Faculty of Agri Business Management, SAU, Dhaka		

11	Dr. Dr. Md. Delwar Hossain,	DD (Ag. Extension& Rural Eco.), NATA		
12	Dr. Md. Ataur Rahman	PSO (Research Division), BARI, Gazipur	01715421401	ataur67@yahoo.com
13	Dr. M A Mazed,	DD, Khamarbari, Dhaka		
14	Dr. Babul Chandra Sarker	PSO, Horticulture centre, BARI, Gazipur	01716-009319	
15	Jannatul Ferdous	UFO, Gazipur Sadar	01741203239	
16	Dr. Debasis Roy	CSO & Head (Entomology Depart), BARI, Gazipur	01712-274933	

## Daily Training Schedule

**Working Day-01**

**Day- Sunday**

**Date: 03-03-2019**

<b>Time</b>	<b>Topics</b>	<b>Speaker/ Facilitator</b>
09.00-9.30	Registration	Laki, SAAO and Md. Anwarul Islam Juwel, Sr.AD, NATA
9.30-10.00	Inaugural	DG/ Director Training / Director Admin & Course Coordinator& Faculty Members
10.00-10.15	Pre-evaluation	Naima Sultana, Sr.AD, NATA
10.15-11.15	Historical overview of Food security in Bangladesh; Policy and its institutional framework	Dr. Prof. Md. Mizanul Hoque Kazal, Dean Faculty of Agri Business Management, SAU, Dhaka
11.15-11.30	<b>Tea break</b>	
11.30-12.30	National Food Security Policy (NFP)'2006 and its perspective plan of action to ensure Food Security	Dr. Prof. Md. Mizanul Hoque Kazal, Dean Faculty of Agri Business Management, SAU, Dhaka

12.30-1.30	Modern Technologies of Fruits & Vegetable production: Ensuring nutritional security and uplifting poverty of rural livelihood	Dr. Babul Chandra Sarker PSO, Horticulture center, BARI, Gazipur
1.30-2.30	<b>Prayer &amp; Lunch Break</b>	
2.30-3.30	Food security and its different concept; Food security in context of Bangladesh & Global perspective	Dr. Md. Delwar Hossain, DD (Ag. Extension & Rural Eco.), NATA
3.30-4.30	World Hunger and Food security: Challenges & Opportunities	Dr. Md. Delwar Hossain, DD (Ag. Extension & Rural Eco.), NATA

**Working Day-02**

**Day-Monday**

**Date: 04-03-2019**

<b>Time</b>	<b>Topics</b>	<b>Speaker/ Facilitator</b>
<b>9.05-9.15</b>	Review of the previous day	Naima Sultana, Sr.AD, NATA
<b>9.15-10.15</b>	Rice development strategies towards food security in Bangladesh, Vision 2050	Dr. Moinus Salam International. Consultant, Cymmyt, Bangladesh
<b>10.15-11.15</b>	Threat of climate change & disaster in food security; adaptable technologies to face the challenges of climate change in Bangladesh	Dr. Moinus Salam International. Consultant, Cymmyt, Bangladesh
<b>11.15-11.30</b>	Tea Break	
<b>11.30-12.30</b>	Food security and Nutritional situation in Bangladesh;	Dr. Abu Sayed, Professor BIRDEM
<b>12.30-1.30</b>	Potential risk of Public health due to malnutrition	Dr. Abu Sayed, Professor BIRDEM
<b>1.30-2.30</b>	<b>Prayer &amp; lunch Break</b>	
<b>2.30-3.30</b>	Strategies of sustainable production of wheat, maize & minor cereal crops for maintaining	Dr. Md. Aatur Rahman, PSO (Research Division),

	food security in Bangladesh	BARI, Gazipur
<b>3.30-4.30</b>	SDG strategies for Sustainable development of Bangladesh	Dr. Md. Delwar Hossain, DD (Ag. Extension & Rural Eco.), NATA

**Working Day-03**  
**Tuesday**

**Day-**

**Date: 05-03-2019**

<b>Time</b>	<b>Topics</b>	<b>Speaker/ Facilitator</b>
<b>9.05-9.15</b>	Review of the previous day	Naima Sultana, Sr.AD, NATA
<b>9.15-10.15</b>	Livestock production: its availability in food security & nutrition safety for growing population of Bangladesh	Dr. Golam Rabbani ULO,DLS
<b>10.15-11.15</b>	Mushroom Development: Nutrition & Food Security	Dr. Nirod Chandra Sarker, DD Mushroom development Centre, Saver, Dhaka
<b>11.15-11.30</b>	<b>Tea break</b>	
<b>11.30-12.30</b>	Ensuring Food safety through food chain: Heavy metal contamination; Use of chemicals, Hormones in Fruits & vegetables and its residual effect	Dr. Debasis Roy, CSO & Head ( Entomology Department), BARI, Gazipur
<b>12.30-1.30</b>	Deficiency symptoms, BMI and Sources of micronutrient in Human Body	Dr. M A Mazed, DD, Khamarbari, Dhaka
<b>1.30-2.30</b>	<b>Prayer &amp; lunch Break</b>	
<b>2.30-3.30</b>	Post-harvest handling, Food Processing and Preservation and its importance for food security	Dr. Miaruddin, CSO, Post-harvest Division, BARI. Gazipur
<b>3.30-4.30</b>	Lab Visit, Post-harvest Division, BARI. Gazipur	Md. Hafiz Uddin, PSO, BARI. Gazipur

**Working Day-04**  
**Wednesday**  
**Date: 06-03-2019**

**Day-**

<b>Time</b>	<b>Topics</b>	<b>Speaker/ Facilitator</b>
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9.05-9.15	Review of the previous day	Naima Sultana, Sr.AD, NATA
9.15-10.15	Genetically Modified (GM)Crops, Its impact on food security & Human health	Dr. Sahidur Rashid Bhyuian, Prof. G&PB and Ex. Pro-Vice Chancellor, SAU,
10.15-11.15	Gender & Food Security: Women's role in Food Hygiene and Nutritional safety in household	Dr. Sahidur Rashid Bhuiyan, Prof. G&PB, Ex. Pro-vice Chancellor, SAU
11.15-11.30	Tea break	
11.30-12.30	Food Consumption, Balanced diet & Nutritional demand; Food adulteration and its effect on public Health	Dr. Md. Monirul Islam, Director Nutrition, BARC, Dhaka
12.30-1.30	National Food safety Act, 2013 and Food safety authority, 2015 and its institutional framework for food control system in Bangladesh	Dr. Md. Monirul Islam, Director Nutrition, BARC, Dhaka
1.30-2.30	Prayer & lunch Break	
2.30-3.30	Threat to Food security and Strategies for improving food security; Mechanism to promote Food Security in Bangladesh	Md. Hamidur Rahman; Ex DG, DAE, Dhaka
3.30-4.30	Sustainable Agriculture development in assurance of food security: achievement, challenges, opportunities	Md. Hamidur Rahman, Ex DG, DAE, Dhaka

### Working Day-05

Thursday

Date: 07-03-2019

Day-

Time	Topics	Speaker/ Facilitator
9.05-9.15	Review of the previous day	Naima Sultana, Sr.AD, NATA
9.15-10.15	Food safety Act- 2013	A.K.M. Nurul Afsar, National Team Leader, IFS-B for Safe Food Project &EX-Dg (Food)
10.15-11.15	Food Safety Authority 2015 for ensuring Safe Food and Food security	A.K.M. Nurul Afsar, National Team Leader, IFS-B for Safe Food Project, EX-Dg (Food)
11.15-11.30	Tea break	
11.30-12.30	Fisheries production: its availability in food	Jannatul Ferdous, UFO,

	security & nutrition and mechanism to promote Fish production in Bangladesh	Gazipur Sadar
<b>12.30-1.30</b>	Food Hygiene & Food habit change for ensuring Good health and Long life	Dr. M A Mazed, DD, Khamarbari, Dhaka
<b>1.30-2.30</b>	Perspective Plan of action & Issues of Access to Food in Developing countries like Bangladesh (Group work & Presentation)	Dr. M A Mazed, DD, Khamarbari, Dhaka
<b>2.30-3.00</b>	Prayer & lunch Break	
<b>3.00-3.30</b>	Post Evaluation	Md. Anwarul Islam Juwel, & Naima Sultana, Sr.AD, NATA
<b>3.30-4.30</b>	Closing Ceremony	DG, Director, Course Coordinator/ Assistant Course coordinator & Faculty members

**NB. This schedule is subjected to change**

#### **LIST OF NATA FACULTY MEMBERS/ OFFICERS**

Photo	Name & Designation	Phone/Cell/ E-mail
	<b>Dr. Md. Abdus Salam</b> <b>Director General (In-charge)</b> <b>NATA, Gazipur</b>	01711459458 masalam1250@gmail.com
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	<b>Md. Shahinul Islam</b> <b>Senior Assistant Director</b> <b>(Field Crop Pest</b> <b>NATA, Gazipur</b>	shahinul_bsmrau02@yahoo.com 01745997741
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