



General Information

Third Country Training Programme on Rice Production Technologies for Food Security and Sustainability of African Countries

Course 1: Online Programme 5-26 September 2022

Course 2: Onsite Programme (to be held in 2023)

Conducted by

Implementing Organization

National Agricultural Extension and Training Center (NAETC), Kasetsart University

The Government of Japan

Japan International Cooperation Agency

The Government of Thailand

Thailand International Cooperation Agency, Ministry of Foreign Affairs of Thailand

**Third Country Training Programme on
Rice Production Technologies for Food Security and Sustainability
of African Countries**

The Subsistence for rice production is considered as the integration of rice production in complete process that safety to producers and consumer. Application to alternative technology support management of rice production and postharvest for food safety. The course title is “Cultural Practice, Technology and Management for Subsistence Rice Production” which conducted by the Royal Thai Government and the Government of Japan, as part of the Third Countries Training Programme (TCTP).

The course arrangement will be made by the Thailand International Cooperation Agency (TICA) of Ministry of Foreign Affairs, Japan International Cooperation Agency (JICA), in collaboration with Kasetsart University (KU) and the relevant organizations in Thailand.

1. Goal

Subsistence of rice production aim to reduce cost in rice production that grain yield and grain quality are not decrease. The technology and management of rice production from planting to harvesting are include; seed testing, seed preparation, land preparation, planting methods, water management, nutrition management, prevention of rice pests by through alternative methods for proper decision making in safety rice production and also postharvest technology. Moreover, the alternative technologies for rice production including bio-fertilizer, Trichoderma, Integrate Pest Management (IPM) and Alternate Wet and Dry (AWD) water management are added on this course. Futuremore, the financial analysis for estimate the budget of rice production are included.

2. Objectives

1. To address the important roles of rice production of local and new rice varieties in Africa.
2. To identify problems in practices, processes, distribution, and regulation of rice production in each participating African countries.
3. To understand the processes, management and technology of rice production in centralized and decentralized farmers' participatory approaches for effective rice production and distribution.
4. To gain experiences and understanding of pre- and post-harvest rice production technologies for effective implementation.
5. To develop the action plan to implement rice production in participants' countries after returning home to promote the practical improvement of rice production.

3. Course Contents (Online & Onsite)

Module 1 Introduction of rice production and rice policy

- Overview of rice production in Thailand
- Rice Policy in Thailand : Economic and Production Issue

Module 2 Technology and Management for Rice Pre-Planting

2.1 Rice varieties

- Type of rice varieties

2.2 Seed Quality

- Rice seed testing quality and purity
- Practice for Rice seed testing quality
- Seed preparation for rice production (broad casting, transplanting and parachuting)
- Practice on seed preparation

2.3 Land Preparation

- Land preparation for rice production
- Demonstration on land preparation

Module 3 Technology and Management Rice Production

3.1 Planting

- Farm mechanization for Rice production
- Rice planting methods
- Practice on rice planting

3.2 Water management

- Water management in paddy fields
- Alternate wet and dry method (AWD)

3.3 Weed management

- Weed management in rice production
- Practice on weed management

3.4 Soil Fertility

- Soil testing
- Practice in soil testing
- Fertilizer management in paddy field
- Practice in fertilizer management

3.5 Pest and Diseases

- Disease management in rice production
- Practice in the field for the “Disease management”
- Pest management in rice production
- Practice in the field for the “Insect management”
- Tricoderma for rice production
- Practice in Tricoderma for rice production

Module 4 Technology and Management of Rice Post-Harvest

- Rice harvesting and postharvest technology
- Practice for rice harvesting
- Practice for grain quality
- Cropping system in Paddy field

Module 5 Economic and Financial analysis for rice production

- Cost-Benefit Analysis (CBA) in Rice Production

Module 6 Country report, Presentation and Discussion

- Country report; presentation
- Summarize and Discussion for policy of rice production
- Action plan presentation
- Wrap up and Discussion
- The writing project on “Individual Action plan”

Module 7 Study visit

- Upland rice
- Rice farmer community
- Big paddy field project

- Rice OTOP
- Rice Science Center, Kamphaengsaen
- Case study in King royal project, rice research station, private sector and farmer field
- Suphanburi Rice Research Center, Suphanburi Province
- Lifestyle and Spirit Thai Farmer Learning Center and seed producer, Suphanburi Province
- Royal Irrigation Department, Ministry of Agriculture and Cooperative
- Nakonluang Rice mill
- Rice flour industry
- Rice bran oil industry
- Rice organic farm; green living camp, Dontum district, Nakhon Pathom province

4. Training methods

Lecture (35%) Field and laboratory practices (35%) study visit (15%), discussion, creation, presentation (15%)

5. Language

The course will be conducted in English

6. Duration

Online Course: 3 weeks (16 days) : 5-26 September 2022 (schedule please see attachment)

Onsite Course: 4 weeks (20 days) : (to be held in 2023)

7. Invited Countries: Angola, Ethiopia, Gambia, Ghana, Guinea-Bissau, Kenya, Liberia, Mozambique, Malawi, Nigeria, Sierra Leone, Rwanda, Sudan, Tanzania, Uganda and Zambia

8. Number of Participants

The number of participants from the invited countries shall not exceed twenty (20) in totals with not more than 2 persons from each country.

9. Qualifications

The candidates must be

(1) Agronomist, breeders and seed extension personnel, advance farmers, private companies.

(2) Nominated by their respective governments in accordance with procedures for application

(3) Be at least two (2) years working experiences in rice production

(4) 25-60 years of ages

(5) Sufficient command of spoken and written English;

(6) Be in good health, both physically and mentally, to complete the course for this reason, pregnancy is considered not appropriate for the course;

(7) Have a medical certificate issued by an authorized physician. This form is also attached to the Application Form;

Note:

Due to COVID-19 pandemic, all participants must follow the health measures of the host country.

The participants/representatives from same organizations of the online course should be available to participate in the onsite course.

10. Institutions

The course will be jointly sponsored by Japan International Cooperation Agency (JICA) (<http://www.jica.go.jp>), Thailand International Cooperation Agency (TICA) (<https://tica-thaigov.mfa.go.th>) and in collaboration with Kasetsart University (<http://www.ku.ac.th>).

11. Venue

The program will be conducted during 16 days through online conference platform organized by the Office of Extension and Training Kamphaengsaen (OET Kps).

And the online course will be conducted at the National Agricultural Extension and Training Centre, Kasetsart University, Kamphaengsaen Campus, Nakhon Pathom province, Thailand.

Email: nopporn.l@ku.th

12. Certificate

Participants who have successfully completed the course will be awarded a E-certificate issued by the TICA, JICA Thailand Office, and KU based on:

- Real Time Online Class (not less than 80%)
- Online Class participation and discussion
- Online presentation

13. Procedures for Application

(1) Applicants interested in participating in the course **must** be nominated by their government and submit three (3) completed nomination forms to the Royal Thai Government through the Royal Thai Embassy, or Consulate in their respective countries, and send one (1) copy directly to

Director, Human Resources Development Cooperation Division,
Thailand International Cooperation Agency (TICA),
Ministry of Foreign Affairs,

The Government Complex, Building B (South Zone),
 8th Floor, Laksi District, Bangkok 10210, THAILAND
 Tel. 66-2203-5000 Ext. 43302, Fax: 66-2143-8357
 E-mail: tctp.tica@gmail.com, siwalee.w@mfa.go.th
 Web site: <https://tica-thaigov.mfa.go.th>

- (2) The Government of the Kingdom of Thailand will inform the applying Governments the name (s) of the selected nominee (s) to participate in the course not later than 3 weeks before the commencement of the course.

14. Allowance and Expenses

The following allowance and expenses will be borne by the Royal Thai Government and the Government of Japan;

- An economy class round trip air ticket designated by TICA will be issued to the approved candidates. The approved candidates are requested to send the copy of his /her passport for arranging the air ticket. Electronic AIR TICKET will be sent to the participants in advance by the representative of the THAI AIRWAYS INTERNATIONAL PUBLIC COMPANY LIMITED, or through the National Airline Office in the participant's country.
- Living allowance at the rate of Baht 600 per day (approximately US\$18) will be paid to each participant during stay in Thailand. This living allowance is for food and other personal daily expenses. However, each participant is suggested to have a pocket money for a few day expenses prior to allowance payment.

15. Facilities Provided

The Government of the Kingdom of Thailand, through Thailand International Cooperation Agency (TICA), Ministry of Foreign Affairs will provide the following facilities;

- (1) Arrangements for the training programme;
- (2) Orientation (Briefing upon arrival); and
- (3) Accommodation reservation and arrangement.

16. General Conditions of the Award

- (1) Participants are required to arrive in Thailand on the date as designated by the TICA after its confirmation of acceptance. However, it will be finally confirmed through the air tickets sent to the participants. Participants are requested to confirm the flight details and date of arrival in Bangkok to the TICA at least 3 days before the course commencement.
- (2) Participants should assume responsibility for other expenses occurred during travelling between the participants' home countries and Thailand.
- (3) Participants should make their own arrangements for any private financial matters. This is not provided by TICA and JICA.

- (4) Upon arrival at Suvarnabhumi International Airport of Thailand, participants will be received by staff of KU.
- (5) Participants are required to observe strictly on the course schedule.
- (6) Application to change or alter the training subject or to extend the training period will not be accepted.
- (7) Participants are requested not to bring any of their family members.
- (8) Participants must return to their home countries after the course completion.
- (9) Participants are requested to prepare their COUNTRY PAPERS, concerning “Postharvest Technology” 30- minute presentation. (see Annex for guidelines on country papers).

17. Life and Health Insurance

Medical insurance will be provided for participants during their stay in Thailand.

18. Visa Procedures

Prior to departure from their home country to Thailand, the participants must apply for Non-Immigrant visa (F) at the Royal Thai Embassy or Thai consulate in or near their countries and pay approximately US\$ 55 for VISA fee. This VISA fee, with receipt of Thai embassy can be reimbursed (reimbursable not exceeding 2,000 Baht) from TICA.

Annex I Guidelines for Country Papers

(1) Country.....

(2) Name of Participant.....

(3) The role of participant in seed purification, propagation and certification.

(4) Information

4.1 Brief general information

a) Farmer organization in each participating countries.

b) Rice production systems of each participating countries.

c) Utilization and consumption of rice in community as food, value added products and livelihood.

d) Extension and distribution of new varieties in each participating countries

4.2 Proposal for establishing seed purification, propagation, certification, and distribution systems in each participating country.

e) Describing goal, objectives, action plan, and budgeting need

Note: Participants should prepare video tape, CD, DVD, power point presentation, or other audio-visual aids to **support 15 minutes**

(5) The Presentation of each country should send to KU by e-mail (nopporn.l@ku.th) before 1 September 2022

Online 3 weeks (16 days)**5 – 26 September 2022**

Day		Time (Thai time)	Title	Lecturer
1	5 Sept 2022	15.00-18.00 pm.	Course Orientation and introduction of rice production in Thailand	Dr. Chanate
2	6 Sept 2022	15.00-18.00 pm.	Rice germplasm and breeding methods	Dr. Chanate
3	7 Sept 2022	15.00-18.00 pm.	Cost-benefit analysis in rice production	Dr. Rapee
4	8 Sept 2022	15.00-18.00 pm.	Seed testing and seed preparation	Dr. Juthamas
5	9 Sept 2022	15.00-18.00 pm.	Land preparation	Dr. Witit
	10 Sept 2022		Weekend	
	11 Sept 2022		Weekend	
6	12 Sept 2022	15.00-18.00 pm.	Botany, morphology and growth stage of rice	Dr. Chanate
7	13 Sept 2022	15.00-18.00 pm.	Rice planting methods	Dr. Chanate
8	14 Sept 2022	15.00-18.00 pm.	Soil property and fertilization	Dr. Audthasit
9	15 Sept 2022	15.00-18.00 pm.	Weed identification and weed control	Dr. Tossapon
10	16 Sept 2022	15.00-18.00 pm.	Disease diagnosis and disease control	Dr. Jintana
	17 Sept 2022		Weekend	
	18 Sept 2022		Weekend	
11	19 Sept 2022	15.00-18.00 pm.	Pest management	Dr. Uraiwan
12	20 Sept 2022	15.00-18.00 pm.	Water management	Dr. Tiwa
13	21 Sept 2022	15.00-18.00 pm.	Harvest and post-harvest management	Dr. Juthamas
14	22 Sept 2022	15.00-18.00 pm.	Grain and cooking quality procedure	Dr. Chanate
15	23 Sept 2022	15.00-18.00 pm.	Rice logistic and value chain system	Dr. Orachos (Fac of Economic)
	24 Sept 2022		Weekend	
	25 Sept 2022		Weekend	
16	26 Sept 2022	15.00-18.00 pm.	Wrap up and discussion	Dr. Chanate