



General Information

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

22 September – 29 October 2026

Conducted by

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

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**

Subsistence for rice production is considered as the integration of rice production as a complete process that is safe for producers and consumer. Application of alternative technology is expected to support management of rice production and post-harvest for food safety. The course title is “Rice Production Technologies for Food Security and Sustainability of African Countries” which is conducted by the Royal Thai Government and the Government of Japan, as part of the Third Countries Training Programme (TCTP).

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

1. Goal

Subsistence of rice production aims to reduce costs in rice production but grain yields and grain quality are not decreased. The technology and management of rice production from planting to harvesting include seed testing, seed preparation, land preparation, planting technology, water management, nutrition management, and prevention of rice pests by using alternative methods for proper decision making for safe rice production and also postharvest technology. Moreover, alternative technologies for rice production, such as bio-fertilizer, Trichoderma, Integrated Pest Management (IPM), and Alternate Wet and Dry (AWD) water management are added to this course. Furthermore, an economic analysis of production cost of rice is included.

2. Objectives

Transferring and exchanging best practices and knowledge for increasing rice production:

- 1) Rice Production: alternative rice production techniques for high productivity per unit area, decrease in the cost of rice production, and sustainable rice production.
- 2) Rice Value Chain: quality control, rice aggregation system, stable supply, and market access and added values.

3. Curriculum

Module 1 Introduction to rice production and rice policy

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

Module 2 Technology and Management for Rice Pre-Planting

2.1 Rice varieties

- Types of rice varieties

2.2 Seed Quality

- Quality and purity of rice seed
- Practice for testing quality of rice seed
- Seed preparation for rice production (broadcasting, transplanting and parachuting)
- Practice on seed preparation

2.3 Land Preparation

- Land preparation for rice cultivation
- Demonstration of land preparation

Module 3 Technology and Management of Rice Cultivation

3.1 Planting

- 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 in 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 post-harvest technology
- Practice for rice harvesting
- Practice for grain quality assessment
- Rice processing for added value
- Cropping System in Paddy Fields

Module 5 Economic and Financial analysis for rice production

- Cost-Benefit Analysis (CBA) in Rice Production
- Rice exporting procedure
- Rice logistics and Value Chain System

Module 6 Country report, Presentation and Discussion

- Country report; presentation
- Discussion for policy of rice production
- Action plan presentation
- Wrap up and Discussion
- Writing Project Proposal
- Writing project on “Individual Action plan”

Module 7 Study visit

- Rice farmer community
- Big paddy field project
- Rice Science Center, Kamphaengsaen
- Rice research station of Rice Department, Ministry of Agriculture and Cooperative
- Suphanburi Rice Research Center, Suphanburi Province
- Lifestyle and Spirit Thai Farmer Learning Center and seed producer, Suphanburi Province
- Nakonluang Rice mill
- Organic rice farm

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

22 September – 29 October 2026 (38 days)

7. Invited Countries: 1) Angola 2) Ethiopia 3) Gambia 4) Ghana 5) Guinea-Bissau, 6) Kenya 7) Liberia 8) Mozambique 9) Malawi 10) Nigeria 11) Sierra Leone 12) Rwanda 13) Tanzania and 14) Zambia

8. Number of Participants

The number of participants from the invited countries shall not exceed 15 persons in totals with not more than 3 persons from each country.

9. Qualifications

The candidates must be

- (1) Nominated by their respective governments in accordance with procedures for application
- (2) Junior to mid-level government officials, be researcher or extension officer (advanced) agronomists, breeders and rice extension personnel.
- (3) Be at least two (2) years working experiences in rice production.
- (4) 25 – 45 years of age.
- (5) Sufficient command of spoken and written in English;
- (6) Be in good health, both physically and mentally; each participant should have a health certificate provided by an authorized physician. The medical report form is also the Application Form. Participants shall follow health instruction/measures by the government of Thailand. ***Pregnancy is regarded as a disqualifying condition*** for participation in the Course; and
- (7) Gender Equality and Women's Empowerment : Women are encouraged to apply for the program. JICA is committed to promoting gender equality and women's empowerment and provides equal opportunities for all applicants regardless of their sexual orientation or gender identity.

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](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 36 days 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 certificate issued by TICA, JICA Thailand Office, and KU based on:

- Real Time Onsite Class (not less than 80%)
- Onsite Class participation and discussion
- Onsite Presentation of Action Plan

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 ***not later than 15th July 2026*** to

- (A) Royal Thai Government through the Royal Thai Embassy, or Consulate in their respective countries, or
- (B) Japan Government through the Japan International Cooperation Agency (JICA) Office 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 of the Kingdom of Thailand,
The Government Complex, Building B (South Zone),
8th Floor, Laksi District, Bangkok 10210, THAILAND
Tel. 66-2203-5000 Ext. 43106, Fax: 66-2143-8357
E-mail: tctp.tica@mfa.go.th
Web site: <https://tica-thaigov.mfa.go.th>

(2) The Royal Thai Government will inform the applying Governments of the name (s) of the selected nominee (s) to participate in the course ***not later than 30 days*** before the commencement of the course.

14. Allowance and Expenses

The following allowance and expenses will be borne by the Government of Thailand and the Government of Japan.

- (1) Economy class round trip air ticket for arrival and departure the International Airport in Bangkok designated by TICA will be issued to the approved candidate.
 - The approved candidates are requested to send a copy of their passport for the arrangement of the electronic air ticket.
 - Electronic air tickets will be sent to the approve candidates via email from TICA.

- (2) Living allowance at the rate of Baht 600 per day (approximately US\$17) 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 his/her own pocket money sufficient for any emergency case prior to allowance payment.

(3) Expenses Not Covered

- Costs for obtaining passports, transit visas, vaccinations, and other personal expenses are the responsibility of the participant or their nominating government.
- Expenses for extended stays beyond the official programme period will not be covered.

15. Facilities Provided

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

- (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 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 TICA **at least 10 days** before the course commencement.
- (2) Participants should assume responsibility for other expenses incurred during travelling between the participants' home countries and Thailand, such as local transportation and passport fee.
- (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 strictly observe 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 **must 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 “Rice Production”, a 20- minute presentation. (see Annex I for guidelines on country papers).

17. Life and Health Insurance

In accordance with relevant regulations, under the health insurance arrangement, free minor medical treatment will be provided for participant who becomes ill during his / her stay in Thailand However, **medical conditions resulting from an undisclosed pre-existent illness may not be financially compensated and may result in termination of the program.**

18. Visa Procedures

Prior to departure from their home country to Thailand, the participants must apply for **Non-Immigration type “F”** at the Royal Thai Embassy/Consulate in or near their countries. Participants must cover all cost arising from visa application i.e. visa fee, travel cost to the Royal Thai Embassy/Consulate, postal and agency service fee (in case visa application is made by post or agency), transit visa fee (in case participant needs to apply for visa to Thailand at a transit country). Only Thai visa fee with receipt of Thai embassy can be reimbursed in full amount upon presenting an original receipt of the fee.

Annex I Guidelines for Country Paper Presentation

Each participant is required to prepare and present a Country Paper in English. The presentation should clearly describe the current situation of rice production in the participant's country and propose practical approaches aligned with the objectives of the training programme.

.1 Country.....

2. Name of Participant.....

3. **Current Role and Responsibilities of the Participant.** (especially related to seed purification, propagation, certification, extension services, or rice production management)

4. Information

4.1 General Information

a) Overview of agriculture in your country.

b) Current status of rice production in your country, including:

- Rice economic data
- Rice cultivation area and yield
- Major rice varieties
- Rice cultivation practices in your country
- Utilization and consumption of rice in communities (as food, value-added products, and livelihoods)

c) Extension services and dissemination of new rice varieties in each participating country

4.2 Proposal (Policy-Oriented and Practical)

Proposal for establishing and/or strengthening seed purification, propagation, certification, and distribution systems in your country.

Annex II Rice-Related Projects

Participants are requested to prepare a presentation on rice-related projects that they are currently involved in, or plan to implement in the future.

Submission

The presentation file of each country should be sent to Kasetsart University by e-mail to nopporn.l@ku.th no later than **15 September 2026**.

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

Rice Production Technologies for Food Security of African Countries
22 September – 29 October 2026 (38 days)

Day	Time	Title	Lecturer
Tue 22 Sept		- Arrival Suvarnabhumi international Airport - 19.00 Arrive NAETC , KU KPS	
Wed 23 Sept	10.00-11.00	Introduction of JICA / CARD	JICA Thailand Office
	11.00-12.00	Welcome address, Introduction to NAETC and Course Orientation	Dr.Kanyarat Chiewvech Assoc.Prof.Dr. Chanate Malumpong
	13.30-14.30	Course Pre-test	KU staffs NAETC
	14.30-16.00 Dis	Country Report Preparation	Assoc.Prof.Dr. Chanate Malumpong
	16.00-17.00	Campus Tour	KU staffs NAETC
Thu 24 Sept	09.00-12.00 Dis	Country Reports Presentation	Assoc.Prof.Dr. Chanate Malumpong, Assoc.Prof.Dr. Tossapon Pornprom, Asst.Prof.Dr. Tiwa Pakoktom
	13.00– 16.00 Dis	Country Reports Presentation	Assoc.Prof.Dr. Chanate Malumpong, Assoc.Prof.Dr. Tossapon Pornprom, Asst.Prof.Dr. Tiwa Pakoktom
	18.00– 20.00	Opening Ceremony	
Fri 25 Sept	9.00-12.00 Lec	Thailand's Rice Production Economy and Policy Toward Sustainable Rice Platform	Assoc.Prof.Somporn Isvilanonda
	13.30-16.30 Lec	Rice value chain	Asst.Prof.Dr. Sonthaya Sumpaonthong
Sat 26 Sept	9.00-12.00	Study visit rice low carbon field	
	13.00-16.00	Study visit rice organic field	
Sun 27 Sept		Cultural Visit	
Mon 28 Sept	9.00-12.00 Lec	Cost-Benefit Analysis (CBA) in Rice Production	Asst.Prof.Dr. Rapee Dokmaithes
	13.30-16.30 Lab	Lab of Cost-Benefit Analysis (CBA)	Asst.Prof.Dr. Rapee Dokmaithes
Tue 29 Sept	9.00-12.00 Lec	Rice growth and development	Assoc.Prof.Dr. Chanate Malumpong
	13.30-16.30 Lab	Rice germplasm and breeding program	Assoc.Prof.Dr. Chanate Malumpong
Wed 30 Sept	9.00-12.00 Lec	Suitable climate for rice	Asst.Prof.Dr. Tiwa Pakoktom
	13.30-16.30 Lec and Lab	Tricoderma (lecture & lab)	Assoc.Prof.Dr.Chatchai Kosawang

Day	Time	Title	Lecturer
Thu 1 Oct	9.00-12.00 Lab	Rice hybridization	Assoc.Prof.Dr. Chanate Malumpong
	13.30-16.30 Visit	Study visit Lifestyle and Spirit Thai Farmer Learning Center	Supanburi Province
Fri 2 Oct	9.00-12.00 Lec	Seed production and seed testing	Asst.Prof.Dr Juthamas Romkaew
	13.30-16.30 Lab	Seed quality and assessment	Asst.Prof.Dr Juthamas Romkaew
Sat 3 Oct		Cultural Visit	
Sun 4 Oct		Cultural Visit	
Mon 5 Oct	9.00 - 12.00 Lec	Land preparation	Asst.Prof.Dr. Tiwa Pakoktom
	13.00 - 16.30 Lab	land preparation	Asst.Prof.Dr. Tiwa Pakoktom
Tue 6 Oct	9.00 - 12.00 Lec	Rice planting methods	Assoc.Prof.Dr. Chanate Malumpong
	13.00 - 16.30 Lab	Rice plating methods	Assoc.Prof.Dr. Chanate Malumpong
Wed 7 Oct	07.00 - 09.00	Leave from NAETC to DMK airport	Nakhon Pathom and Bangkok
	14.45 – 15.45	Departure from DMK to PHS	Phitsanulok
	17.00	Check in at hotel	Phitsanulok
Thu 8 Oct	9.00 - 12.00	Study visit Phitsanulok Rice Research Center	Phitsanulok
	13.00 - 16.00	Study visit Community Rice Center	Phitsanulok
Fri 9 Oct	09.00 - 12.00	Study visit Research Station	Kamphangphet
	13.00 - 16.30	Cultural visit	Kamphangphet
Sat 10 Oct	9.00 - 16.00	Study visit Organic Rice Field	Phitsanulok
Sun 11 Oct	09.00 - 12.00	Cultural visit	Phitsanulok
	16.15 -17.05 and 18.00 - 20.00	Departure from PHS to DMK and back to NAETC, Nakhon Pathom	Bangkok and Nakhon Pathom
Mon 12 Oct	9.00 - 12.00 Lec	Soil fertility and fertilizer management	Asst.Prof. Audthasit Wongmaneroj
	13.30 - 16.30 Lab	Soil fertility and fertilizer	Asst.Prof.Dr.Suphachai Amkha
Tue 13 Oct วันนมินท รมหาราช	09.00 - 12.00 Lec	Rice water management, low carbon rice production	Assoc.Prof.Dr. Chanate Malumpong
	13.30 - 16.30 Lab	Rice water management	Assoc.Prof.Dr. Chanate Malumpong
Wed 14 Oct	9.00 - 12.00 Lec	Weed and herbicide management	Assoc.Prof.Dr. Tossapon Pornprom

Day	Time	Title	Lecturer
	13.30 - 16.30 Lab	Weed and herbicide	Assoc.Prof.Dr. Tossapon Pornprom
Thu 15 Oct	9.00 - 12.00 Lec	Rice insect pest management and IPM	Assoc.Prof.Dr.Sopon Uraichuen
	13.30 - 16.30 Lab	Rice insect pest	Assoc.Prof.Dr.Sopon Uraichuen
Fri 16 Oct	9.00 - 12.00 Lec	Rice disease management and GAP	Assoc. Prof.Dr.Chainarong Rattanakreetakul
	13.30 - 16.30 Lab	Lab of rice disease	Dr.Pisut Keawmanee
Sat 17 Oct		Cultural Visit	
Sun 18 Oct		Cultural Visit	
Mon 19 Oct	9.00 - 12.00 Lec	Rice harvesting and milling process	Asst.Prof.Dr. Juthamas Romkaew
	13.30 - 16.30 Lab	Lab of rice harvesting and milling process	
Tue 20 Oct	9.00 - 12.00 Lec	Rice grain quality	Assoc.Prof.Dr. Chanate Malumpong
	13.30 - 16.30 Lab	Lab of rice grain quality	Assoc.Prof.Dr. Chanate Malumpong
Wed 21 Oct	9.00 - 12.00 Lec	Rice processing for added value	Asst Prof Dr Jukkrapong Pinyo
	13.30 - 16.30 Lab	Lab of rice food processing	Assist Prof Dr Jukkrapong Pinyo
Thu 22 Oct	9.00 - 12.00 Lec	Rice Mechanization	Dept.of Fram Mechanics
	13.30 - 16.30 Lab	Rice Mechanization	Dept of Farm Mechanics
Fri 23 Oct วันพุธ มหาวิทยาลัย	9.00 - 12.00 Lec	Writing Project Proposals	Asst.Prof Ratana Aungkasit
	13.30 - 16.30 Dis	1 st Draft Writing Project Proposals	Asst.Prof Ratana Aungkasit Prof. Chanate, Dr.Kanyarat
Sat 24 Oct	9.00 – 16.00 Visit	Study visit at Doem Bang Nang Buat Modern Rice Big Farm,	Doem Bang Nang Buat District, Suphan Buri
Sun 25 Oct		Cultural Visit	
Mon 26 Oct	9.00 - 12.00 Dis	Preparation of action plans	Asst.Prof Ratana Aungkasit ,Assoc.Prof.Dr. Chanate Malumpong, Assoc.Prof.Dr. Tossapon Pornprom
	13.30 - 16.30 Dis	Preparation of action plans	Asst.Prof Ratana Aungkasit ,Assoc.Prof.Dr. Chanate Malumpong, Assoc.Prof.Dr. Tossapon Pornprom

Day	Time	Title	Lecturer
Tue 27 Oct	9.00 - 12.00 Dis	Action plans Presentation	Asst.Prof Ratana Aungkasit ,Assoc.Prof.Dr. Chanate Malumpong, Assoc.Prof.Dr. Tossapon Pornprom
	13.30 - 16.30 Dis	Action plans Presentation	Asst.Prof Ratana Aungkasit ,Assoc.Prof.Dr. Chanate Malumpong, Assoc.Prof.Dr. Tossapon Pornprom
Wed 28 Oct	9.00 - 12.00	Wrap Up	Assoc.Prof.Dr. Chanate Malumpong
	14.00	Closing Ceremony	
Thu 29 Oct	01.45	Departure	