



MALAYSIAN TECHNICAL  
COOPERATION PROGRAM



JAPAN INTERNATIONAL  
COOPERATION AGENCY



Malaysia-Japan  
International  
Institute of Technology  
(MJIIIT)



MALAYSIA  
JAPAN  
LINKAGE OFFICE

## THE THIRD COUNTRY TRAINING PROGRAM (TCTP)

### GENERAL INFORMATION

## ADVANCED MATERIAL CHARACTERIZATION FOR GREEN TECHNOLOGY APPLICATION

27 SEPTEMBER 2026

10 OCTOBER 2026

UNIVERSITI TEKNOLOGI  
MALAYSIA - MALAYSIA-JAPAN  
INTERNATIONAL INSTITUTE  
OF TECHNOLOGY



#### CONTACT INFORMATION

FOR ENQUIRIES, PLEASE CONTACT:

TRAINING INSTITUTE: MALAYSIA-  
JAPAN INTERNATIONAL INSTITUTE  
OF TECHNOLOGY (MJIIIT)

Email: [mjiit.mj@utm.my](mailto:mjiit.mj@utm.my)

Application Deadline:  
31 July 2026

### COURSE DESCRIPTION

#### Course Background

The TCTP is a capacity building collaboration project between the Government of Malaysia and the Government of Japan which start in 1992 with the objective of sharing Malaysian and Japanese expertise and experiences

#### Course Content

The curriculum is structured to provide a balance between theoretical foundation and practical mastery of high-end analytical equipment. Key areas include:

**Expert Sharing Sessions:** Country-specific challenges regarding equipment utilization and maintenance.

**Theoretical Frameworks:** Deep-dive into the science behind green technology materials.

**Hands-on Technical Training:** Supervised operation of advanced equipment, including:

**i) Analytical Laboratory:** Fourier Transform Infrared Spectroscopy (FTIR) & Gas Chromatography–Mass Spectrometry (GCMS)

**ii) Microscopy Laboratory:** Low Vacuum Scanning Electron Microscopy (LVSEM) & Field Emission Scanning Electron Microscope (FESEM)

**Maintenance & Safety:** Routine calibration, troubleshooting, and laboratory safety protocols.

#### Course Objectives

Critically evaluate country-specific challenges in equipment utilization and maintenance by integrating theoretical principles of green technologies with real-world case insights.

Demonstrate technical competency in operating, calibrating, and troubleshooting advanced analytical and microscopy equipment in accordance with laboratory safety standards.

#### Course Methodologies

This program utilizes an Integrated Experiential Learning approach:

- **Theoretic-Practical Integration:** Lessons move from classroom theory to immediate laboratory application.
- **Demonstration-Performance:** MJIIIT experts demonstrate complex operations followed by supervised participant practice to ensure technical accuracy.
- **Peer-to-Peer Discussion:** Facilitated sessions to solve common operational difficulties, share maintenance solutions and analysis outcomes.
- **Continuous Evaluation:** Progress is monitored through practical skills checklists and a final presentation of interpreted performance data.

### TARGET PARTICIPANTS

#### Who Should Attend:

The course will be relevant to junior to medium level of government officials from government ministries, academia and related organizations in the field of green technologies. Applicants are required to have a proficient command of the English language.

Female candidates are highly encouraged to apply.

List of target countries:

Indonesia, Thailand, Nepal, Sri Lanka, Philippines, Laos, Cambodia, Vietnam

### APPLICATION PROCEDURE

Only complete applications made through the MTCP website <https://mtcp.kln.gov.my/courses2/list2> will be considered. Select the course name and click "Apply Course" to generate a new application form.

**Applicants** are required to:

- complete the online application form
- upload a passport sized photo; and
- provide a self-introduction video.

A draft link will be sent via email and must be accessed using a One-Time Password (OTP) and submitted within **seven (7) days**. The manual for the application process can be found on the MTCP Website. All application forms must be duly completed and endorsed by the Ministry of Foreign Affairs of candidates' respective countries and should be submitted only through the diplomatic channel via Malaysian Embassy/High Commission of Malaysia. Successful applicants will be notified via email by Malaysia Japan-Linkages (MJL) no later than **7 August 2026**.

### VISA INFORMATION

For **countries that require a visa** to enter Malaysia, you **must apply for eVISA** before departing.

- Upload the necessary travel documents through the system.
- Ensure that all documents are scanned clearly for the smooth process of approval.
- eVISA fees and related costs are to be borne by the participants.
- Link to eVISA: <https://malaysiavisa.imi.gov.my/evisa/evisa.jsp>
- Bring along the eVISA and all the necessary travel documents for the arrival in Malaysia.
- For countries that do not require visa to enter Malaysia, may enter with Social Visit Pass

## GENERAL RULES & REGULATIONS

- To observe the rules and regulations of the organizer or establishment with which participants are visiting or attached to;
- To observe the course schedule by punctual attendance and attend/participate actively in all sessions including study visits;
- To follow the travel schedule arranged by the organizer with regard to departure from Malaysia;
- To discontinue the course, should participants fall seriously ill and be considered unable to continue the course;
- To refrain from committing any illegal or immoral acts. Should participants be found in contravention of this requirement, they will be barred from attending the course and will be asked to leave the course and country with immediate effect;
- To dress appropriately which includes collared-shirts or uniform, tailored pants and closed shoes for both men & women.
- Participants must respect the local customs and observe the rules and regulations at the place of accommodation and not to change accommodation designated by the organiser;
- To remain in Malaysia and complete the whole duration of the program without any leave of absence;
- Participants will not utilise knowledge and skills acquired in the training for military purposes;
- Participants are fully responsible for their own valuables and belongings while travelling and while in Malaysia. Any losses due to negligence will not be compensated by the organisers; and
- Participants who do not comply with the general conditions, regulations and obligations of the TCTP participants would be reported to their respective Embassies or High Commissions as well as to the Head of their respective organisations;

## ALLOWANCE AND BENEFITS

Participants will be provided with the following allowances and benefits:

### • Accommodation

Participants will be accommodated at a hotel/hostel within the vicinity of the training institute. **Participants are strictly not allowed to bring any family members during the course.** Accommodation will be on single room basis.

### • Daily Allowance

Participants will be provided with a daily allowance based on TCTP regulation. The per-diem would only cover the official course duration.

### • Meals

Lunch will be provided except during weekends based on TCTP regulation during the course.

### • Air Fares

Economy class air travel from the capital city of the participants to and from Malaysia. Tickets will be issued upon confirmation of acceptance.

### • Course Fees

All course fees are borne by the Government of Malaysia and the Japan International Cooperation Agency (JICA).

### • Dress Code (Formal Event)

Participants are required to dress in formal or office attire with closed shoes throughout the sessions as well as during official visit to Government Ministries Agencies.

### • Dress Code (Laboratory Session)

Participants are required to dress appropriately which includes collared-shirts or uniform, tailored pants and closed shoes for both men & women.

### Medical Information

- Participants are required to make their own arrangements to obtain adequate medical insurance coverage for their stay in Malaysia. The cost shall be borne by the participants or the government of participating country.
- The Secretariat will reimburse the purchase up to USD50 only.

## ABOUT US

### About MTCP

The Malaysian Technical Cooperation program (MTCP) was initiated at the First Commonwealth Heads of Government Meeting (CHOGM) for Asia Pacific Region held in Sydney in February 1978. It was officially launched on 7<sup>th</sup> September 1980 at the 2<sup>nd</sup> CHOGM in New Delhi, India to signify Malaysia's commitment to South-South Cooperation, in particular Technical Cooperation among Developing Countries (TCDC).

The MTCP is conducted through the sharing of Malaysia's development experiences and by providing training and technical advices in key areas that are important for the development of a country. Since its conception, technical and capacity-building programs under the MTCP have benefited more than 40,000 participants from participating countries.

For more information, please visit MTCP Official Portal: <https://mtcp.kln.gov.my/> and MTCP Official Facebook Page: <https://www.facebook.com/MTCPMalaysia>.

### OBJECTIVES OF THE MTCP

- To share experience with other developing countries;
- To strengthen bilateral ties with developing countries;
- To encourage and promote South-South Cooperation; and
- To encourage and promote technical cooperation within developing countries.

### About JICA

JICA was first established in 1974 under the Japanese Government and later merged with the Overseas Economic Cooperation Operations of the Japan Bank for International Cooperation (JBIC) in 2008. Currently, JICA, an incorporated administrative agency, in charge of administering Japan's ODA, is one of the world's largest bilateral aid agencies supporting socioeconomic development in developing countries in different regions of the world.

### Mission

JICA, in accordance with the Development Cooperation Charter, will work on human security and quality growth.

### Vision

**Leading the World with Trust**

JICA, with its partners, will take the lead in forging bonds of trust across the world, aspiring for a free, peaceful, and prosperous world where people can hope for a better future and explore their diverse potentials.

For more information, please visit JICA official website: <http://www.jica.go.jp/english/countries/index.html>

### About MJIT & MJL

The Malaysia-Japan International Institute of Technology (MJIT) is premier Malaysia-Japan hub for education, research and development, technical collaboration and mobility, serving ASEAN and the global community. Malaysia-Japan Linkages (MJL) is a sustainable and dynamic platform in MJIT that catalyzes strategic collaboration among universities, industries, and agencies

More information about MJIT can be click here: <https://mjit.utm.my/mjl/>