



MALAYSIAN TECHNICAL COOPERATION PROGRAMME (MTCP) 2018

EMBEDDED SYSTEM TECHNOLOGY

26th August 2018 to 15th September 2018



APPLICATION DEADLINE: 27 JULY 2018

JMTI

Institut Teknikal Jepun Malaysia
pulau pinang

Background of the Malaysian Technical Cooperation Program (MTCP)

The Malaysian Technical Cooperation Program (MTCP) was first initiated at the First Commonwealth Heads of Government Meeting (CHOHM) for Asia Pacific Region in Sydney in February 1978. It was officially launched on 7 September 1980 at the Commonwealth Heads of State Meeting in New Delhi to signify Malaysia's commitment to South-South Cooperation, in particular Technical Cooperation among Developing Countries (TCDC). In line with the spirit of South-South Cooperation, Malaysia - through the MTCP - shares its development experiences and expertise with other developing countries. To date, MTCP has extended its recipient of countries to more than 141 developing nations for training within its ten (10) key areas. Since its inception, more than 30,686 participants from more than 141 recipient countries have been directly trained under MTCP.

Objectives of MTCP :

- To share Malaysia's development experience with other countries;
- To strengthen bilateral relations between Malaysia and other developing countries;
- To promote South-South cooperation (SSC);
- To promote technical cooperation among developing countries (TCDC)

TRAINING INSTITUTE: JAPAN MALAYSIA TECHNICAL INSTITUTE (JMTI)

The Japan Malaysia Technical Institute (JMTI) situated in the state of Penang, Malaysia is given the responsibility to provide a post-secondary training and tertiary technology education to supplement the shortage of workforce, and to be the ladder for existing skill workforce to upgrade and further their vocational training and education to the highest standards and achievements towards meeting the skilled manpower requirements in high technology industries and vision 2020.

JMTI offers advanced courses in Engineering Technology comprises of five (5) main fields of study which are Computer, Electronic, Mechatronic, Manufacturing and Precision Machining. The main objective of JMTI is to produce well-trained industrial technologist with engineering knowledge and high technical skill especially in the field of engineering which prepares the trainees to adapt and face the challenges of rapid growing technology in line with the advancement and changes of globalization.

Course Overview:

This training program aims to enhance knowledge of concept and approach in various aspects of the embedded system using the latest microcontroller. Participants shall be trained to improve their knowledge and ability in using sensors & actuators, troubleshooting & improvement, embedded system for IoT, interfacing a web based IoT platform, PCB design and fabrication, assembly & project testing and project evaluation.

During the training, participants are required to acquire skills in using various types of devices such as temperature and humidity sensor, IR sensor, DC motors and etc. For troubleshooting & improvement section, participants will gain practical knowledge on how to debug and make better coding as well as on hardware part. Participant also will be exposed to knowledge and skills related to IoT platform in embedded system technology.

This training program can be considered as a skill upgrading or retraining program especially to those involved in less relevant industries or training provider personnel. This course can be considered as a countermeasure approach to human capital development process to maintain sustainability in economic expansion.

Course Objectives:

- Have acquired ample knowledge of embedded system technologies to design and build embedded system.
- Be able to apply the embedded system knowledge and skill for real application.

COURSE MODULE

Topics:

Embedded System Technology

- Introduction to Embedded System
- Using Sensors
- Using Actuators
- Troubleshooting and Improvement
- Embedded System for IoT
- Interfacing a Web Based IoT Platform
- PCB Design and Fabrication
- Assembly & Project Testing
- Project Evaluation

Benchmarking and Educational Visits

- Benchmarking Educational Visits to corporate training centres
- Educational visit to national historical sites and to the capital city.

TARGETED PARTICIPANTS:

This training program is offered to participants who possess practical experience of more than three (3) years in related computer and electronic fields, from among the following countries: **all Malaysian Technical Cooperation Program (MTCP) recipient countries**. Participants should be nominated by the Government of the respective countries.

ENTRY REQUIREMENTS:

To be eligible to apply, applicants of the course are obliged to fulfil the following requirements:

- Preference will be given to applicants with **practical experience of more than three (3) years in related computer and electronic fields**;
- Nominated by the Government of the respective countries;
- Must be citizens from the following countries: **all Malaysian Technical Cooperation Program (MTCP) recipient countries**;
- Should be at the age of **under 45** at the commencement of the course;
- Had not participated in any course under MTCP;
- Should possess a fairly good command of the English Language (both spoken and written abilities);
- Medically fit (applicants must submit his/her medical report together with the application form)

APPLICATION PROCEDURES:

- All applicants are required to complete the MTCP application form available at www.mtccpcoms.kln.gov.my/mtccpcoms/
- Application forms must be complete, and endorsed by the Ministry of Foreign Affairs / Focal Point (responsible for the MTCP Programme) in the applicant's respective country.
- Subsequently, applicants are required to **submit three (3) copies** of the completed forms via *Note Verbale* to the Malaysian Embassy / High Commission in the respective countries via the Ministry of Education of their respective countries
- Submitted application form must be accompanied by the candidate's **copy of passport/colour copy of passport, current passport size coloured photo and medical record**.

NOTIFICATION:

- Applicants who do not receive notification prior to the commencement of the course can assume their applications have been deemed unsuccessful.
- No written notification will be sent to unsuccessful applicants.
- **INCOMPLETE/OR UNENDEORSED FORMS WILL NOT BE PROCESSED.**

VISA & VACCINATION:

- It is mandatory that all MTCP participants adhere to the *Visa With Reference (VWR)* application procedure to enter Malaysia.
- Person seeking to enter Malaysia must be in possession of valid passport or other internationally recognized travel document and visa if required. Participants should ensure that their Passport or other travel document must be valid for **at least 6 months** beyond the period of stay allowed in Malaysia
- Upon receiving the colour copy of passport, current passport size coloured photo and acceptance letter from the selected participants, successful participants are required to submit a coloured photocopy of the first page of their valid passport to the Training Institution/programme organizer who will apply for VWR at the Department of Immigration in Malaysia for immigration processing and obtaining specific VWR Approval Letter for the participants.
- Upon approval, a copy of this VWR Approval Letter will be forwarded to the participants who will subsequently need to collect their respective VWR from the nearest Malaysian Mission.
- Participants who receive the specific VWR Approval Letter are required to obtain a VWR stamp at the specified Malaysian Mission before entering Malaysia.

NOTE:

- All participants must arrange for their own visa and vaccination prior to their travel. Expenditures on all visa-related fees, airport-tax/airport user's charge, transit insurance, excess luggage, travel tax, transit fees, domestic passenger terminal fees, phone chargers, private purchases, etc. are **BORNE BY THE PARTICIPANTS**. This also applies for medical check-up vaccinations prior to travel to Malaysia;
- Participants from yellow fever endemic areas including diplomatic and official passport holders are required to take a mandatory vaccination for yellow fever at least ten (10) days prior to their departure to Malaysia and required to produce a Yellow fever Vaccination Certificate at the entry point in Malaysia.
- For Course Information and Application Guidelines, please refer to the following link:
http://mtccpcoms.kln.gov.my/mtccpcoms/online/list_course

GENERAL TERMS AND CONDITIONS OF AWARD:

COURSE TUITION AND FEES:

Tuition fees will be borne by the Malaysian Government under the MTCP.

AIR FARES:

A return air ticket from the capital city of the recipient's country to Kuala Lumpur on economy class will be provided by the Government of Malaysia to participants from recipient countries with GDP per capita below USD 5,000. Therefore, some MTCP recipient countries may need to bear their own air fares. Tickets will be issued upon confirmation of acceptance.

ACCOMMODATION:

Lodging will be provided throughout the duration of the training.

MEDICAL TREATMENT:

In the case emergencies and need of medical treatment, medical expenses only at Government hospitals will be borne by the Government of Malaysia. Dental treatment is restricted to only extraction and filing. Medical expenses at private hospitals/clinics shall be borne by the participants.

PROGRAM MANAGER:

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