

Application and Requirements

APPLICATION GUIDELINES

1. Application should be made using prescribed MTCP forms available at: mtcpcoms.kln.gov.my/mtcpcoms/online/list_course
2. The application must be completed and endorsed by the Ministry of Foreign Affairs / Focal Points responsible MTCP Programme in the applicant's country, then submitted through the applicant's government with Note Verbale to the Ministry of Foreign Affairs Malaysia via the nearest Malaysian High Commission / Embassy.
3. Incomplete and/or unendorsed forms will not be processed
4. Online training link will be send out via email to successful candidate.

Age: Applicants should be at the age of 26 to 50 years

Course Fee and Registration: All courses fees will be borne by the Malaysian Government under the MTCP.

Manners: Participants shall conduct themselves at all times in a manner compatible with their responsibilities as MTCP participants and abide by the laws, rules and regulations as may be stipulated by the host government in respect of this training course.

Netiquette: Netiquette guidelines are a set of rules that dictate what tasteful and respectful online behavior is. During lectures, male participants are required to dress in long-sleeved shirts with ties, long pants and lounge suits and female participants should be appropriately dressed in office attire. During practical, participants are required to dress in suitable attire for practical training. For formal occasions – lounge suit or national costume are required.



For further enquiries, applications can either approach their respective Malaysian official representatives, or write/e-mail to the following address:

THE SECRETARIAT OF MTCP 2021

Centre for Instructor and Advanced Skill Training (CIAST)

P.O Box 7012, Jalan Petani 19/1

Section 19 Shah Alam

40900 Selangor

MALAYSIA.

Email : mtcp@ciast.gov.my

TRAINING COORDINATOR:

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CLOSING DATE

12 March 2021 (Region of Asia)

26 March 2021 (Region of Middle East)

30 April 2021 (Region of Africa)

Malaysian Technical Cooperation Programme (MTCP)

THE MALAYSIAN TECHNICAL COOPERATION PROGRAMME

The Malaysian Technical Cooperation Programme (MTCP) was officially launched on 7 September 1980 at the Commonwealth Heads of State Meeting in New Delhi, India, to signify Malaysia's commitment to the South-South Cooperation, in particular, the Technical Cooperation among Developing Countries (TCDC).

The MTCP emphasizes on the development of human resources through the provision of trainings in various areas which are essential for a country's development such as the public administration, good governance, health, education, agriculture, sustainable development, poverty alleviation, economy and finance, ICT and environment. Annually, Malaysia offered more than 65 capacity-building and technical assistance programmes under the MTCP, which have benefited more than 34,000 participants from 144 countries.

OBJECTIVES OF MTCP

1. To share the development experience with other countries;
2. To strengthen bilateral relations between Malaysia and other developing countries;
3. To promote South-South Cooperation (SSC); and
4. To promote the technical cooperation among developing countries.

Centre for Instructor and Advanced Skill Training (CIAST)

Acronym for the Centre for Instructor and Advanced Skill Training. CIAST is the forefront institute in the Ministry of Human Resources and one of the leading organizations in development and enhancement trainers of skill training in Malaysia. The idea of CIAST was first mooted by the Malaysian Government in 1979. CIAST conducts various courses for participants from other vocational training institutes, domestic industries and international countries and this has been a tradition with the Ministry where human resources is the biggest and most important asset.

The centre offers courses in instructor training, supervisory training and advanced skill training for skills instructors, industrial supervisors and coaches and industrial skilled workers from the private and public sectors as well as international level. Training programs at the centre are conducted by experience instructors with various technical backgrounds. CIAST is located in Shah Alam, the state capital of Selangor which is also known as the 'Orchid City' of Malaysia. It is 25 km away or about half an hour drive from Kuala Lumpur, the capital of Malaysia and about one hour drive from Kuala Lumpur International Airport (KLIA).



MALAYSIAN TECHNICAL COOPERATION PROGRAMME MTCP 2021

Join our course:

INTRODUCTION FOR INDUSTRIAL AUTOMATION FOR IR4.0 IN NEW NORM CODE: CM21MECHAE-01

Organised by:



Centre For Instructor And Advanced Skill Training (CIAS)
MALAYSIA

Date:

12-16 April 2021 (Region of Asia)
26-30 April 2021 (Region of Middle East)
31 Mei-04 Jun 2021 (Region of Africa)

Time:

Malaysia Time Zone (GMT +8)

Description and Course Outline

INTRODUCTION FOR INDUSTRIAL AUTOMATION FOR IR4.0 IN NEW NORM

Introduction For Industrial Automation For IR4.0 is offered to technical trainers, vocational training managers, officers and lecturers of government institutions or departments. Course participants will be exposed to the fundamentals of pneumatic in industrial automation; mechatronics Grafcet/PLC/Robot Programming with CIROS®; and integrated automation with MES & CIROS®. This course includes comprehensive theory, simulator practice as well as pre-test and post-test evaluation.

Target group

This course is developed for technical trainers, vocational training managers, officers, and lecturers of government institutions / departments related to the course being offered.

Course Methodologies

- ❖ Lecture (Webinar);
- ❖ Presentation (Webinar);
- ❖ Assignments/ Quizzes.

Hardware and System Requirements

- ❖ Intel Core i5 (7. Generation or equivalent)
- ❖ 8 GB, 200 GB SSD (or better)
- ❖ Windows 10 1709 64-Bit or later release version
- ❖ Intel HD 530 or better for showing small-models like MPS Robot Station
- ❖ NVIDIA GeForce GTX 1070 or better for showing large models and for using the included Virtual Reality feature.
- ❖ CIROS® recommends and tests using HTC VIVE
- ❖ CIROS® uses OpenVR. To run Ciros in Virtual Reality a free account at Steam is required.

Softwares

- ❖ CIROS – Virtual Training Environment
- ❖ FluidSIM – Pneumatic / Hydraulics schematics simulation
- ❖ Codesys - PLC Simulation
- ❖ GoToWebinar – Platform for Live Training/ Webinar

ALL SOFTWARES WILL BE INSTALLED DURING THE COURSE

Understanding Pneumatic in Industrial Automation

- Content:
- ✓ Fundamental of Pneumatics
 - ✓ Pneumatic Actuators
 - ✓ Pneumatic Valves
 - ✓ Symbolic Presentation of devices and drawing standards
 - ✓ Pneumatics control circuit using Fluidsim simulation

GRAF CET Programming

- Content:
- ✓ Introduction to GRAFCET
 - ✓ Structure of GRAFCET
 - ✓ Control program case studies using CIROS

PLC Programming

- Content:
- ✓ PLC Operations
 - ✓ Programming Languages IEC61131-3
 - ✓ PLC programming and visualisations
 - ✓ Mechatronic system simulation using CIROS

Industrial Robot Programming

- Content:
- ✓ What is Industrial Robot?
 - ✓ Type and usage methods of Industrial Robot?
 - ✓ Example of industrial robot applications
 - ✓ Virtual robot programming using CIROS

Integrated Automation with MES and CIROS

- Content:
- ✓ Industrial revolution from first and fourth
 - ✓ Automation pyramid
 - ✓ MES: creating, managing, controlling and visualizing customer orders
 - ✓ Augmented Reality: maintenance worker assistant
 - ✓ RFID: digital product memory
 - ✓ Production control and planning