

APPLICATION GUIDELINES

- ❖ Application should be made using prescribed MTCP forms available at: mtcpcoms.kln.gov.my/mtcpcoms/online/listcourse
- ❖ The application must be completed and endorsed by the Ministry of Foreign Affairs / Focal Points responsible for the 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.
- ❖ Incomplete and/or unendorsed forms will not be processed
- ❖ Online training link will be sent out via email to successful candidate.

**CLOSING DATE OF NOMINATION
25 JUNE 2021**



TRAINING INSTITUTION



Universiti Tun Hussein Onn Malaysia (UTHM) is a public university located in Batu Pahat, Johor Malaysia. It was formerly known as Institute Teknologi Tun Hussein Onn (ITTHO) and Kolej Universiti Teknologi Tun Hussein Onn Malaysia (KUitTHO). UTHM committed to generate and disseminate knowledge in order to meet the needs of the industry and the community and to nurture creative and innovative human capital, based on the tauhidic paradigm.

Continuing Education Centre (CEC) is a lifelong learning provider in UTHM. CEC provides various opportunities of lifelong learning and professional development programmes for local, national and international community.

Among the programmes offered include short-term courses, long-term courses and part time master programmes.

CONTACT DETAILS

Continuing Education Centre (CEC)

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**MALAYSIAN
TECHNICAL
COOPERATION
PROGRAMME**

ENERGY MANAGEMENT TOWARDS ORGANIZATIONAL SUSTAINABILITY

DATE: 5 JULY 2021 – 9 JULY 2021

Time: 9:00 am– 17:00 pm Malaysia (GMT + 8)

TARGETED REGION: ASIA, ASEAN AND SAARC

ABOUT MTCP

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

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

COURSE OVERVIEW

Energy Management plays an important role towards sustainability of an organizational. Energy Management includes planning and operation of energy-related production and consumption units involved in day-to-day organization activities. The main objectives are resource conservation, climate protection and cost savings, while the users still have permanent access to the energy they need. It is connected closely to environmental management, production management, logistics and other established business functions.

TRAINING METHODOLOGY

This course will be fully conducted in English. An integrated teaching and learning methodology will be adopted. Participants learn through interactive online lectures, discussions, simulation exercises, group work on a mini project, and virtual reality visits. Some of the modules will include in group activity and presentation session as part of the assessment tools.

EXPECTED OUTCOME

At the end of course, the participants should be able to:

- ✓ Elaborate and discuss the concepts of Energy Management.
- ✓ Appreciate the importance of Energy Management and its contribution towards organizational sustainability.
- ✓ Elaborate steps for Organizational Energy Management implementation.
- ✓ Implement energy management best practices in the respective organization and in policy making

MONITORING AND EVALUATION METHOD

- Group Activities and Presentation: 30%
- Participation: 20%
- Assignments and Reports: 40%

COURSE OUTLINE

Module 1 – ICE BREAKING

This session is to allow participants to get to know each other to allow interactive surrounding during the training period via online platform (Padlet / Kahoot etc). Participants will also be given quick run through the heading and daily program.

Module 2 – INTRODUCTION TO ENERGY, CLIMATE CHANGE AND CARBON FOOTPRINT

- 2.1 Energy Resources and Renewable Energy
- 2.2 Cause and Impact of Climate Change
- 2.3 Energy Management Concept
- 2.4 Important and Benefit of Energy Management
- 2.5 Carbon Footprint

Module 3 - WHERE TO START?

- 3.1 Organization Energy Policy
- 3.2 Energy Management Team
- 3.3 Organization Energy Review
- 3.4 Baseline of Organization Energy Use
- 3.5 Energy Performance Criteria

Module 4 - ENERGY MANAGEMENT CYCLE

- 4.1 Energy Objectives and Targets
- 4.2 Action Plans
- 4.2 Operating Controls and Procedures
- 4.3 Measurement, Management, and Documentation
- 4.4 Internal Energy Audit

Module 5 - ISO 50001

- 5.1 Purpose and Background of ISO 50001
- 5.2 ISO 50001 Standard Requirements
- 5.3 Benefit of ISO 50001 Standard Implementation
- 5.4 Implementation Paths of ISO 50001

Module 6 - ENERGY AUDIT

- 6.1 Metering and Monitoring
- 6.2 Energy Audit Parameters
- 6.3 Equipment and Site Auditing
- 6.4 Output and Reporting

Module 7 – ENERGY EFFICIENCY

- 7.1 Energy Efficient Concept
- 7.2 Energy Efficient for Electrical Equipment
- 7.3 Energy Efficient for Thermal Equipment
- 7.4 Energy Saving Financial Analysis

Module 8 – ORGANIZATIONAL AND PRODUCT CARBON FOOTPRINT

- 8.1 Introduction to Carbon Auditing and GHG Protocol
- 8.2 Organizational and Product Carbon Footprint
- 8.3 Carbon Quantification
- 8.4 Carbon Reporting
- 8.5 Malaysia National Program on Energy and Carbon Footprint

Module 9 – REFLECTION AND CONCLUSION

The module aims for the participants to share their opinions, ideas and expectation based on the knowledge gain through the training.

COURSE OBJECTIVES

This course is designed to assist participants to:

- Describe the principles of Energy Management.
- Explain the implications of Energy Management on organizational behavior and finance.
- Elaborate the purpose, strengths and limitations of tools and techniques involved in Energy Management.
- Apply several tools and techniques for managing an Energy Management project
- Implement Energy Management best practices in the organization

TARGETED PARTICIPANTS

Participants of this course should have the following prerequisites:

- Middle Management Officers nominated by their Government;
- A bachelor's degree in any field;
- 26 - 50 years of age;
- Three years or more of working experience;
- Have a good command of spoken and written English;
- Medically fit to attend the course; and
- Ability to work independently and in groups

NOTE

- All participants need to prepare a presentation related to energy management implementation in their respective country.
- UTHM is one of Training Institution offered of Malaysian Technical Cooperation Programme (MTPC) scholarship.
- For short courses for foreign country delegates. For more details, kindly refer MTPC online portal at;

https://mtcpcoms.kln.gov.my/mtcpcoms/online/list_course

