



ISTIC
INTERNATIONAL SCIENCE, TECHNOLOGY AND
INNOVATION CENTRE FOR SOUTH-SOUTH
COOPERATION UNDER THE AUSPICES OF UNESCO



IEMTC
IEM Training Centre Sdn Bhd

Training Workshop on MAINTENANCE OF INFRASTRUCTURE for Developing Countries

**26 – 28 March 2018
Kuala Lumpur | Malaysia**



Organised by:

**International Science, Technology and Innovation Centre
for South-South Cooperation under the auspices of UNESCO (ISTIC)**

In Collaboration with:

IEM Training Centre Sdn. Bhd. (IEMTC)

SYNOPSIS

Maintenance is used as a generic term to include planned maintenance, repair and reimbursement and provision for replacement of the structures. Maintenance should be considered as important part and parcel of any infrastructure development in a country. Good maintenance of infrastructure and facilities need good policy, planning and implementation.

The goal of infrastructure maintenance is to sustain the life of major assets. When maintenance is provided too soon or too late, it will incur unnecessary costs and compromise the asset's economic life span. Maintenance of existing infrastructure should not be seen of secondary importance to the apparently more attractive option of new infrastructure.

Maintaining infrastructure comes at a cost, but this is a prudent investment which saves significantly in the medium to long term and promotes both the economic and human capital development. There are other significant costs associated with inadequate maintenance and consequent breakdowns. These costs could include loss of production and consequent economic loss, health risks, injury or loss of life, and the cost of alternative measures needed during breakdowns.

Maintenance norms and standards are yet to be developed for the various sectors (e.g. roads, water, sanitation, etc). Good practice guidelines for planning, designing and implementing maintenance programmes will be identified. Based on the maintenance standards, budgeting norms will be developed to facilitate accurate long-term maintenance budget forecasting, taking into account the type, age and condition of the infrastructure.

The programme covers essential contents on Malaysia's Ascertain Institutional Framework on Infrastructure Maintenance, assessment needs, planning and execution, including financial planning and budgetary control of infrastructure maintenance.

OBJECTIVE

The objective of the workshop is to expose participants to the latest technology and methodology for maintenance of various infrastructures in developing countries. The workshop will include site visits.

THE OUTCOME OF THE TRAINING WORKSHOP

- Consensus on the benefits of planned maintenance;
- Have the basic knowledge and motivation to promote the maintenance culture for its seamless implementation,
- Essential insights into the trend, technology and financing for maintenance of major infrastructures;
- Be aware of the engineering related business opportunities in infrastructure maintenance project.

PARTICIPANTS

About 30 - 40 participants from developing countries and Malaysia will be selected to attend this training workshop. The combination of participants from developing countries and Malaysia will allow for exchange of knowledge, ideas and experiences as well as opportunities for networking and collaboration.

Participants are required to seek travel grant from their organizations to pay their travel expenses to Kuala Lumpur, Malaysia.

The organizers will bear the local costs with include accommodation and food.

WHO SHOULD ATTEND

Policy makers who are involved in policy, planning, budgeting and managing the infrastructure maintenance in their countries; have a good command of English and in good health

CLOSING DATE OF APPLICATIONS

All applications should be submitted to the ISTIC secretariat office **before or by 23 February 2018**

ISTIC will inform the successful applicants to the training workshop **not later than 28 February 2018**. Applicants who do not receive word within this date are consider unsuccessful.

SECRETARIAT & ENQUIRIES

Secretariat

Training Workshop on Maintenance of Infrastructure for Developing Countries
International Science, Technology and Innovation Centre
for South-South Cooperation under the auspices of UNESCO (ISTIC)
902- 4, Jalan Tun Ismail
50480 Kuala Lumpur, Malaysia

Tel: +603-2694 9898 ext 112

Fax: +603-2698 4549

Email: adzim@istic-unesco.org

Website: <http://www.istic-unesco.org>

- a) Applicants are urged to use online application. The link of online application form can be accessed from the website www.istic-unesco.org
<https://goo.gl/forms/AOMXNPpoRSzoga453> [google forms]
- b) Applicants also can apply using application form as attached in this brochure and submit the completed form to the following address: adzim@istic-unesco.org

PROGRAMME

Day 1 : 26 March 2018 (Monday)	
8.30 am – 9.00 am	Registration
9.00 am – 9.30 am	<ul style="list-style-type: none"> • Welcome Speech by Dato' Dr. Samsudin Tugiman FASc Chairman, ISTIC Governing Board • Welcome Speech by Ir. Yim Hon Wa Chairman, IEMTC • Official Opening by YB Datuk Rosnah Binti Abdul Rashid Shirlin Deputy Minister, Ministry of Works, Malaysia
9.30 am – 10.00 am	Morning Tea Break
10.00 am – 10.30 am	Infrastructure Maintenance for OBOR Keynote Lecture 1: Academician Dato' Ir. (Dr.) Lee Yee Cheong FASc, Honorary Chairman, ISTIC
10.30 am – 11.00 am	Challenges in Malaysian Highway Maintenance Speaker 1: Datuk Ir. Hj. Ismail Md. Salleh Director General, Malaysian Highway Authority (MHA)
11.00 am – 11.30 am	Maintenance for Commuters Safety and Comfort Speaker 2: Dato' Sri Azmi Abdul Aziz President & Group CEO, Prasarana Malaysia Berhad
11.30 am – 12.30 pm	Forum Moderated by Academician Dato' Ir. (Dr.) Lee Yee Cheong FASc
12.30 pm – 1.30 pm	Lunch
1.30 pm – 2.00 pm	Prepare for site visit and assemble at pick up point
2.00 pm – 5.00 pm	Technical Site Visit : MRT Kajang - Sungai Buloh Line

Day 2 : 27 March 2018 (Tuesday)	
8.00 am - 8.30 am	Malaysian Legislation Framework for Maintenance Keynote Lecture 2 : Ir. Yim Hon Wa, IEMTC Chairman
8.30 am – 9.00 am	Common Property Act Speaker 1 : Datuk Ir. Fong Tian Yong Past President, Technological Association of Malaysia
9.00 am – 9.30 pm	Water & Sewerage Act Speaker 2: Ir. Mohamed Haniffa Haji Abdul Hamid Chief Operating Officer, Indah Water Konsortium (IWK)
9.30 am – 10.00 am	Financing for Infrastructure Maintenance Keynote Lecture 3 : Ir. David Lai Kong Phooi Deputy President, The Institution of Engineers, Malaysia (IEM)
10.00 am – 10.30 am	Morning Tea Break
11.00 am – 11.30 am	Financing Maintenance Speaker 3: Datuk Feroz Hanif Mohamed Ahmad Engineer, Majlis Bandaraya Shah Alam
11.30 am – 12.00 noon	Highway Maintenance Speaker 4 : Ir. Sazally Saidi Deputy President, Association of Malaysian Highway Concessionaires
12.00 noon – 12.30 pm	Forum Moderated by Ir. Yim Hon Wa, IEMTC Chairman
12.30 pm – 1.30 pm	Lunch
1.30 pm – 2.00 pm	Prepare for site visit and assemble at pick up point
2.00 pm – 5.00 pm	Technical Site Visit : Highway Site

Day 3 : 28 Mac 2018 (Wednesday)	
9.00 am – 9.30 am	Innovative Technology & Materials for Infrastructure Maintenance Keynote Lecture 3 : Ir. Choo Kok Beng FASc PJK ISTIC Engineering Advisor
9.30 am – 10.00 am	Materials for Maintenance Speaker 1: Mr. Yang Kian Lock President, Building Materials Distributors Association Malaysia (BMDAM)
10.00 am – 10.30 am	Morning Tea Break
10.30 am – 11.00 am	Projects Maintenance Speaker 2: Mr. Foo Chek Lee President, Master Builders Association (MBAM)
11.00 am – 12.00 pm	Forum Moderated by Ir. Choo Kok Beng FASc PJK Questions and Answers Evaluation and Review of the Technical Visit
12.00 pm – 12.30 pm	Closing Session <ul style="list-style-type: none"> • Certificate Presentation • Group Photograph
12.00 pm – 2.00 pm	Lunch
End of Event	

ORGANISERS



ISTIC
INTERNATIONAL SCIENCE, TECHNOLOGY AND
INNOVATION CENTRE FOR SOUTH-SOUTH
COOPERATION UNDER THE AUSPICES OF UNESCO

ISTIC is an international organisation under the auspices of UNESCO and was established by agreement between the Government of Malaysia and UNESCO and by resolutions of the UNESCO General Conference at its session. As

a UNESCO category 2 Science Centre, ISTIC's activities are global and regional in scope and contributes to UNESCO's strategic objectives, global and sectoral priorities.

ISTIC's main objective is to increase the capacities for the management of science, technology and innovation throughout the developing countries by among others, fostering cooperation among governments, academia and industry in order to facilitate the transfer of knowledge between the public and private sectors and the development of well – planned and relevant knowledge based programmes and institutions in participating counties, developing networks and collaborative training programmes at international level, supporting the exchange of researchers, scientists and technologists among developing countries and facilitating the exchange and dissemination of information. ISTIC acts as international platform for south-south cooperation in science, technology and innovation and makes use of the network of the G77 countries plus China and the Organisation of the Islamic Conference (OIC). Details on ISTIC is available at www.istic-unesco.org



IEMTC
IEM Training Centre Sdn Bhd

IEM Training Centre Sdn. Bhd, (IEMTC) is a 100% owned training and business arm of The Institution of Engineers, Malaysia (IEM). It is registered with the Registrar of Companies on 22 September 1984

and the Ministry of Finance Malaysia on 24 January 2011. Details on IEMTC is available at www.iemtc.com

The main activities of the company are:

- providing Professional Development Programmes (PDP) for Graduate Engineers to become Professional Engineers.
- providing Continuing Professional Development (CPD) programmes for Professional Engineers to comply with the BEM requirements for renewal of their P.E. status.
- providing training for IEM members and the public for engineering advancement.
- providing in-house training for engineering advancement.
- events management such as exhibition, secretariat services, publications.
- resource centre for knowledge.
- facilitate and impart knowledge.
- providing any other solutions.

INTERNATIONAL APPLICATION FORM
(Typewritten or blocked letters)

FOR OFFICIAL USE ONLY	Please affix latest passport photograph
Reference No:	
Received:	
Checked:	
Title of Course: Training Workshop on Maintenance of Infrastructure for Developing Countries	Date, duration & venue of course: Kuala Lumpur, Malaysia 26 – 28 March 2018

NOTE: Link for Online Application: <https://goo.gl/forms/AOMXNPpoRSzoga453>

1. PERSONAL PARTICULARS:

Family name (surname):	Date of Birth: (Date/Month/Year)
First name:	Nationality: (Citizenship)
Other given names:	Gender: (Male/ Female)
City and country of birth:	Marital status: (Single/ Married)
Passport No:	Designation : Prof./ Dr / Mr / Mrs / Ms

2. COMMUNICATION AND MAILING ADDRESS

Applicant's Office Address:			
Email address:			
Office Phone No:		Mobile No:	
Office Fax No:			
Person to be contacted in case of emergency (name, telephone and address):			

3. EDUCATION

Name of institution and place of study	Major field of study:	Years of study	Degree

4. EMPLOYMENT RECORD

A. Current Post:			B. Previous Post:		
Employer:			Employer:		
Duration of service:	From	To	Duration of service:	From	To
Title of post:			Title of post:		
Current monthly salary(US dollars):			Monthly salary (US dollars):		
Name of supervisor and title:			Name of supervisor and title:		
Type of organisation: Government/ Semi-Government/ Private/ NGO			Type of organisation: Government/ Semi-Government/ Private/ NGO		
Main functions of organisation:			Main functions of organisation:		
Total number of employees in organisation:			Total number of employees in organisation:		
Description of your current work including your responsibilities:					
<p><i>*Please use supplementary pages if necessary</i></p>					

5. REASONS FOR APPLYING THIS TRAINING WORKSHOP

Please briefly state the reasons for applying this training workshop and how you hope to benefit from this programme

Have you participated in any ISTIC training programmes before: YES/ NO
If yes;

Name of programme	Date

6. CERTIFICATION OF ENGLISH LANGUAGE PROFICIENCY

	Excellent	Good	Fair	Remarks
Listening				
Speaking				
Writing				
Reading				
Mother tongue:				:
Language test administered by				:
Title				:
Address				:
Telephone No				:
Email address				:
Date and Signature				:

7. DECLARATION:

Have you ever been convicted by a Court of Law of any country? Yes/ No
If yes, please give brief details:

I certify that my statements in answer to the foregoing questions are true, complete and correct to the best of my knowledge and belief.

If accepted to the training workshop, I undertake to:

- (i) carry out such instructions and abide by such conditions as may be stipulated by both the nominating government and the host government in respect of this course of training;
 - (ii) follow the course of study or training, and abide by the rules of the institution in which I undertake to study or train;
 - (iii) refrain from engaging in political activities, or any form of employment for profit or gain;
 - (iv) submit any progress reports which may be prescribed; and
 - (v) return to my home country promptly upon the completion of my course of studies or training.
- I fully understand that if I am granted an award it maybe subsequently withdrawn if I fail to make adequate progress or for other sufficient cause determined by the host Government.

Signature of Application : _____
Name : _____
Date : _____

8. OFFICIAL DECLARATION (to be completed by the Head of Department):

The Government / Organisation
of
...
nominates.....
(name of applicant)

For the program under the International Science, Technology and Innovation Centre for South-South Cooperation (ISTIC) and certifies that:
(i) all information supplied by the nominee is complete and correct;
(ii) the nominee had adequate knowledge and was appropriately tested for English Language proficiency.

Remarks:
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_____	_____
(Name)	(Signature of responsible Head of Department)
_____	Address of Department/ Ministry
(Designation)	_____
Official seal/ stamp	_____
	Office telephone no:
	Office fax no:
Date:	Email address:

Note: INCOMPLETE AND/OR UNENDORSED FORMS WILL NOT BE PROCESSED