



APPLIED TECHNOLOGY
GROUP OF COMPANIES
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Course On

Engineering Infrastructure Asset Management

Date : 16th August 2016
Time : 9.00 am to 5.00 pm
Venue : Armada Hotel, Petaling Jaya

SYNOPSIS

A modern and developed nation relies extensively on the continued successful operation of its engineering infrastructure to sustain or improve the quality of life of its people. Engineering infrastructure helps to provide or deliver reliable and efficient transportation; power; education; water and health facilities as well as space for living and working. Typically the infrastructure includes production plant, support structures, storage facilities, highways, railways, bridges, airports, docks, harbours, water treatment plants, water supplies and a variety of commercial and public buildings.

Many public or private sector organisations have failed to appreciate that these facilities, like any other valuable assets, need to be well managed and maintained to ensure satisfactory levels of performance and safety. Lack of investment in the management of such assets often results in poor value for money, poor use of financial and human resources, increased financial risk, partial or total closure, loss of function, increased threats to the health and safety of the work force and the public and, in extreme cases, collapse and loss of life.

LEARNING OUTCOME

The course will provide you with:

- An understanding of the need for an asset management approach to ownership of infrastructure including potential benefits such as an informed approach to planning, programming and budgeting.
- An understanding of the important role of an asset management in ensuring the safety and functionality of infrastructure and the service it provides to the public or to a commercial organisation.
- An overview of what can (and does) go wrong: potential forms of failure with particular reference to foundations, steel and, in particular, concrete structures.
- Knowledge of the key elements of an asset management system including inventories; inspections; preventative maintenance; defect diagnosis; maintenance strategies; service life and deterioration predictions; prioritisation of maintenance, repair, strengthening or reconstruction activity.
- Guidance on the development of an asset management policy.
- An appreciation of the importance of an asset management approach to ownership as part of a Quality Assurance/Total Quality Management System.

Special Discount

Early Bird Discount

RM 100

Register for course and pay before 16th July 2016

Supported by The Institution of Structural Engineers, Malaysia

SPEAKER PROFILE



Professor Steve Garrity

BSc(Hons), MSc, PhD, CEng, MICE, FStructE, FCIHT, FIMS

Steve Garrity is a chartered civil, structural and highways engineer with almost 40 years' experience in the planning, design, supervision of construction and repair or strengthening of a variety of civil and structural engineering works. He gained much of this experience with consulting engineers and the bridge engineering department of a major UK public highway authority. Steve has also spent part of his career as an academic. He was the Head of the Department of Civil and Environmental Engineering at the University of Bradford, UK (1997 - 2002) where he later served as a Civil Engineering Consultant and Visiting Professor in Civil Engineering Design.

He is currently the Hoffman Wood Professor of Architectural Engineering at the School of Civil Engineering, University of Leeds, UK. His current academic work includes teaching at undergraduate and postgraduate levels and research into the performance of concrete and masonry structures. Since 2002 he has also been the principal of Garrity Associates, an independent firm of consulting civil and structural engineers. He has provided training and courses for a wide range of construction professionals and has designed various new structures and repair or strengthening works for a variety of clients including government departments, local authorities, consulting engineers and design and build contractors. Most of his work has been associated with the repair or strengthening of concrete and masonry structures. He is a member of the Institute for Resilient Infrastructure at the University of Leeds and has a number of research links with several universities in the UK and the rest of Europe.

Steve is the recipient of the Institution of Highways and Transportation Babbie Premium Award (1992) and the Institution of Structural Engineers Cass Hayward Prize (1993), Sir Arnold Waters Medal (1995) and the Lewis Kent Award (2004). He was the co-recipient of the Institution of Civil Engineers Historic Bridge and Infrastructure Awards in 2004 (winner) and 2009 (commendation). He serves as a committee and panel member of various learned societies and professional bodies. He is a past-President of the International Masonry Society (2013-15) and, since 2012, has served as one of two international professors on the degree accreditation board of the Hong Kong Institution of Engineers (HKIE). Steve currently chairs the Joint Board of Moderators in the UK. The JBM accredits undergraduate and master's civil engineering (and related) degrees on behalf of the ICE, IStructE, CIHT and the IHE.

WHY PEOPLE SHOULD ATTEND THE COURSE?

Engineering infrastructure asset management is about planning the best way of looking after your infrastructure and its component facilities from the time they are first in service (and arguably before construction starts on site) up to the point when they need to be demolished and replaced. A well-designed asset management system will:

- Take into account any reliable knowledge you have about the performance of similar facilities (if available!);
- Help you to build up a database of the in-service performance of your facilities that can be used in future planning;
- Help you to develop annual maintenance priorities, identify resource requirements and set budgets;
- Take into account any constraints caused by operational requirements and/or access limitations;
- Be user-friendly and will deliver improvements!

As the owner or manager of infrastructure, it is essential to adopt a proactive asset management approach to looking after the facilities in your care. The alternative, a reactive "crisis management" approach usually represents poor value for money and is inherently high risk!

Engineering Infrastructure Asset Management

WHO SHOULD ATTEND

This course is designed for anyone working in the public or private sector who is involved in the design, supervision of construction, inspection, maintenance, management or operation of infrastructure facilities. Such facilities include transportation networks (highways, railways, airports, maritime); water supply networks; water treatment facilities; residential developments; commercial building developments; process industries (e.g. oil, gas, palm oil); educational infrastructure (primary, secondary and tertiary education estate) and healthcare infrastructure (hospitals).

COURSE SCHEDULE

DAY 1

9.00am - 10.30am	Session 1: Setting the scene <ul style="list-style-type: none"> The Eurocode and infrastructure asset management. Achieving value for money; minimising non-routine operating costs; planning. Definition; infrastructure asset management. Proactive asset management vs. reactive crisis management. The challenges of implementing an Infrastructure Asset Management scheme.
10.30am - 10.45am	<i>MORNING TEA BREAK</i>
10.45am - 12.30pm	Session 2: What can (and does) go wrong <ul style="list-style-type: none"> An overview of the common defects. Foundation failure Defects in steel and concrete construction Overview of cracking in concrete
12.30pm - 2.00pm	<i>LUNCH</i>
2.00pm - 3.30pm	Session 3: Essential elements of Asset Management <ul style="list-style-type: none"> Essential elements of an asset management system Inventories General, principal and special inspections Recording defects, testing, monitoring and diagnosis
3.30pm - 3.45pm	<i>TEA BREAK</i>
3.45pm - 5.00pm	Session 4: Maintenance priorities and strategies <ul style="list-style-type: none"> Maintenance priorities Condition assessment and rating Alternative maintenance strategies Integrating asset management with TQM Summary
<i>END OF DAY ONE</i>	

Claimable under HRDF SBL scheme subject to max limit allowed.

6 BEM Approved CPD Hours (Ref No.: ISE/MD/CPD/ATG/014) , 10 CIDB Approved CCD Points (Ref No.: CIDBSL/C/2016/0270), 6 PEB Approved PDUs (Singapore)



COURSE REGISTRATION FORM

Course title: Engineering Infrastructure Asset Management
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(✓ Please tick)

<input type="checkbox"/> 16th August, 2016 Petaling Jaya, Armada Hotel, Selangor

Company Information

Company:	
Address:	
State/ Province:	
Zip/Postal Code:	
Country:	
Contact Person:	
Email:	
Phone:	

Attendee Information

Name (1)	
Job title:	
E-mail:	
Mobile/Tel No:	
Name (2)	
Job title:	
E-mail:	
Mobile/Tel No:	
Name (3)	
Job title:	
E-mail:	
Mobile/Tel No:	

Registration Fee

	Fee Before GST (6%)	GST (6%)	TOTAL
Individual Fee	RM2,000	RM120	RM2,120
Group Fee (3 or more delegates)	RM1,800	RM108	RM1,908

Closing date: 9th August 2016. An early bird discount of RM 100 for payment received before 16th July 2016.

Payment

Payment is to make payable to:
Applied Technology Group Sdn Bhd
Public Bank Berhad (Malaysia)
 Account no: 3178247302
 GST Registration Number: 000641294336

Payment terms:

Payment is required before the event. Once received your place is automatically reserved. Registration fee includes lunch, refreshments and full training documentation as specified. Delegates may be refused admission if payment is not received prior to the event. The fee does not include hotel accommodations.

Cancellation Policy

- All cancellation of registration must be made in writing. If you are unable to attend:
- A substitute delegate is welcomed at no additional charge.
 - Your registration can be credited to a future event.
 - You will receive a full refund less 10% administration charge if cancellation is received in writing more than 14 days before the event.
 - No cancellations will be accepted within 14 days before the event start date. Full course documentation will however be sent to the delegate.

Course Schedule

Course starts at 9.00am and ends at 5.00pm daily. Please arrive at 8.30am on day one to allow time to register and receive course materials.

Please send completed form to:

Fax to: **+603 5637 9945**
 or Email to : admin@apptechgroups.net
 For enquiry, please call: +603 5634 7905/+6012-3174863
 Or refer to our website www.apptechgroups.net

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