

**IES
GREEN PLAN**
Advancing the Singapore Green Plan 2030

ABC WATERS PROFESSIONALS COURSE – ELECTIVE MODULE EU 5 (Managing Peak Runoff) 6th Run

Organised By: IES Academy Pte Ltd



- Date of Course** : 25 September 2024 (Wednesday)
- Time of Course** : 9.00am to 5.30pm
- CPD Programme** : 7 PDU (ABC), 6 PDU (QECP), 4 CPD (SILA), 2 CPD (SIA-BOA),
PDU (PEB/CEng) – *to be confirmed*
- Venue** : IES Academy@Jurong East
80 Jurong East St 21 #04-10 S(609607)
- Fee (incl. 9% GST)** : \$381.50 (IES/SIA/SILA Members)
\$468.70 (Non Members)

Supported by:



ABC WATERS PROFESSIONALS COURSE – ELECTIVE MODULE EU 5

Managing Peak Runoff (6th Run)

INTRODUCTION

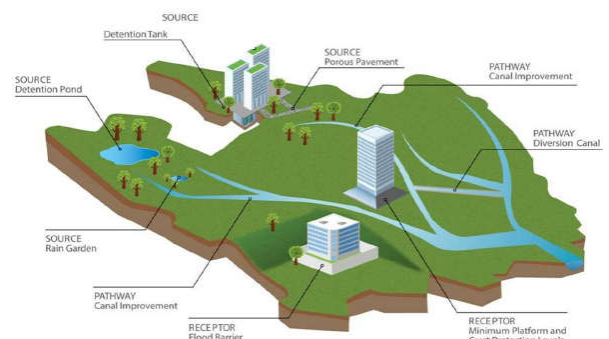
Two-thirds of Singapore functions as local catchment areas. Under the Active, Beautiful, Clean Waters (ABC Waters) Programme, PUB has embarked on a journey to harness the full potential of our waters by integrating them with our environment. Over the past 2 to 3 years, other public agencies and private developers have also embraced the ABC Waters Design that leads to improvement in waters quality, enhanced biodiversity and new recreational space for people to get closer to water.

To build up the expertise of industry professionals in ABC Waters design features, the ABC Waters Professional Programme was launched in September 2011. Comprising four core modules and four elective modules, the programme covers the concepts, design, implementation and maintenance of ABC Waters design features.

Participants who complete all four core modules plus any two elective modules and meet the registration criteria of IES/SIA/SILA, would be eligible to be registered as an ABC Waters Professional. Details on the registration criteria can be found at the websites of IES, SIA and SILA. Participants who complete any single module would receive certificate of attendance for the module completed.

In line with the revisions to the Code of Practice on Surface Water Drainage, developers/owners shall engage an ABC Waters Professional to design, oversee the construction of, and develop a maintenance plan for the ABC Waters design features. The developer/owner shall submit the concept design and design calculations, endorsed by the ABC Waters Professional, to PUB as part of their Development Control (DC) submission.

Elective Unit 5, “Managing Peak Runoff” is a newly designed module which would cover detention requirements for site developments in order to meet the latest updated Code of Practice requirements. This unit will also present to participants how ABC Waters design can be used as a non-structural means to meet the detention requirements as required by PUB’s COP.



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Course Schedule

Time	Content	Lecturers
0900 – 0910 (10 mins)	ABC Waters Professional Programme - Overall Course Roadmap	IES Academy
0910 – 0940 (30 mins)	Introduction – the need for detention systems	Idaly Mamat
0940 – 1230 (180 mins includes break)	Structural detention systems – pumped v.s. gravity Introduction to COP Submission requirements & common mistakes	Idaly Mamat
1230-1300 (30 mins)	Operation and maintenance requirements of detention systems	Idaly Mamat
1300 – 1400 (60 mins)	Lunch	
1400-1530 (90 mins)	Introduction to ABCWDFs as detention Examples of ABCWDFs used for detention Submission Requirements	Lim Hong Yi
1530 – 1545 (15 mins)	Tea break	
1545 – 1645 (60 mins)	Group Work & Activity: Design a detention system for given hypothetical development	Lim Hong Yi
1645-1730 (45 mins)	MCQ Assessment	

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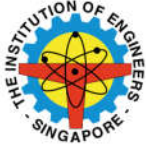
Trainers Profile

Idaly Mamat

Senior Assistant Director, Catchment & Waterways Department in PUB

Lim Hong Yi

Hong Yi graduated with a Bachelor in Environmental Engineering from Nanyang Technological University and has 8 years of experience in the areas of hydrology, hydraulics, drainage and ABC Waters design. He was involved in a number of public and private civil infrastructure projects during his time with an engineering consultancy firm, notably the development of drainage masterplans for Mandai Park Development in Singapore and Kura Kura Bali, a resort island in Indonesia, as well as the ABC Waters Project at Sungei Api Api and Sungei Tampines. Hong Yi is currently an engineer in PUB and is involved in the implementation of ABC Waters projects, such as the recently completed Phase 2 ABC Waters Project at Jurong Lake.



REGISTRATION FORM

Date:	25 September 2024 (Wednesday)		
Time:	9.00am to 5.30pm		
CPD Programme:	PDU (PEB/CEng), 7 ABC, 6 QECP, 2 BOA-SIA, 4 SILA – <i>to be confirmed</i>		
Course Fees:	IES Members: \$381.50 / Non-Members: \$468.70		
Course Venue:	IES Academy@Jurong East 80 Jurong East Street 21 #04-10 Devan Nair Institute Singapore 609607		
Course Coordinator:	Nancie Neo; Email: nancie.neo@iesnet.org.sg		
Closing Date:	16 August 2024, Friday (<i>or earlier when all seats filled</i>)		
Participant's Details			
Name (as per NRIC):		NRIC/FIN:	
Company:		Designation:	
Billing Address:			
		Postal Code:	
Mobile:		Office:	
Email:			
Please indicate if any	<input type="checkbox"/> IES No:	<input type="checkbox"/> SILA/SIA No:	<input type="checkbox"/> Non-Member
	<input type="checkbox"/> PE/CE No:	<input type="checkbox"/> Company Sponsor	<input type="checkbox"/> Vegetarian
Contact Person (if different from above)			
Name:		Designation:	
Contact Number:			
Email:			
Payment Details (please indicate)			
<input type="checkbox"/> PayNow	<input type="checkbox"/> Bank Transfer	<input type="checkbox"/> Vendors@GOV:	
<input type="checkbox"/> Others:			
<p>➤ Course fee includes course materials & prevailing GST ➤ Certificate of Attendance is issue to participant with 100% attendance</p>			
Acceptance of Terms & Conditions for Registration of IES Academy Courses / Events I have read, deemed understood and agree to abide to Terms & Conditions for Registration of IES Academy courses / events.			
Name:	_____	Signature & Date:	_____

TERMS & CONDITIONS ON COURSE REGISTRATION

Registration

Any registration, whether on-line or fax will be on a ***first-come-first-served basis*** and will only be confirmed upon receipt of full payment by IES Academy Pte Ltd unless otherwise invoice to company. All registrations must be submitted with duly completed registration form.

Closing Date & Payment

The closing date of the event will be 1 week prior to event commencement date or earlier. Invoice will be sent to you via email when the course is confirmed to run. **PayNow and/or Bank Transfer** preferred.

Confirmation of Registration

Confirmation of registration will be given at least 1 week before the commencement date via email. ***If you do not receive the said confirmation email, you are required to contact IESA at 6463 9211 during office hours.***

IESA reserves the right to allow only confirmed registrants to attend the Event.

Withdrawals/Refunds of Fees

- Written notice ***at least 1 week in advance*** before the commencement of the event
- Full course fee shall be refunded subjected to 4.5% transaction charge.
- **NO** refund otherwise.
- No show of participant would not be accepted as a valid reason for withdrawal/refund.
- One time replacement is allowed only if written notice is received by us at least 1 week before the commencement of the event. However, when an IES member is replaced by a non-member, the participant has to pay the difference in the relevant fees.

Cancellation/Postponement

Changes in Venue, Dates, Time and Speakers for the Events can occur due to unforeseen circumstances. IES reserves the full rights to cancel or postpone the Event under such circumstances without prior reasons. Every effort, however, will be made to inform the participants or contact person of any cancellation or postponement.

Fees will be refunded in FULL if any Event is cancelled by IESA.

PERSONAL DATA PROTECTION ACT

I consent to the processing by Institution of Engineers, Singapore of personal data, including sensitive personal data as defined in the Data Protection Act 2014, about me for the proper purposes of Institution of Engineers, Singapore (IES). I undertake to observe the provisions of the Data Protection Act 2014 in relation to any personal data I may myself hold and process as a Members of Institution of Engineers, Singapore, and I agree to indemnify Institution of Engineers, Singapore from liability for any claims or damages that may arise from the processing of this data. For more information kindly refer to [here](#).

Enquiries

For further enquiries, please contact IESA general office at Tel: 6463 9211.