

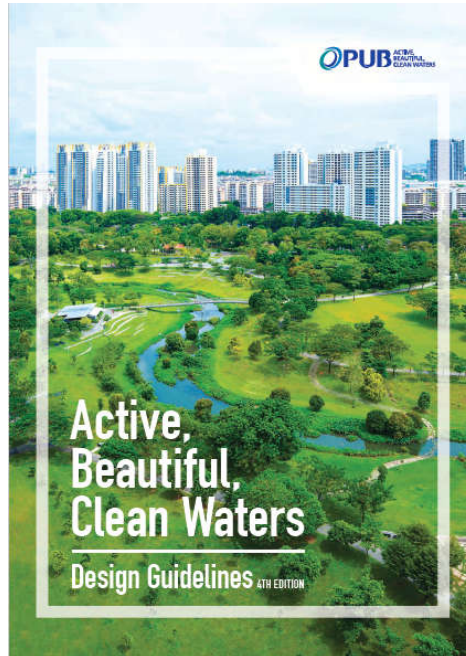


**IES  
GREEN PLAN**  
*Advancing the Singapore Green Plan 2030*

# ABC WATERS PROFESSIONAL COURSES – ELECTIVE MODULE EU 1

Design, Construction and Maintenance of Sedimentation Basins  
(14th Run)

Organised By: IES Academy Pte Ltd



- Date of Course** : 10 December 2024 (Tuesday)
- Time of Course** : 9.00am to 5.30pm
- CPD Programme** : 7 QECP, 7 ABC, 7 PDU, 4 SILA, 2 BOA-SIA (all TBC)
- Venue** : IES Academy@Jurong East  
80 Jurong East St 21 #04-10 S(609607)
- Fee (incl. GST)** : \$381.50 (IES/SIA/SILA Members)  
\$468.70 (Non Members)

Supported by:



## **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.

On an annual basis, developers/owners shall also submit a certificate of inspection on ABC Waters design features, endorsed by an ABC Waters Professional, if applicable. The certificate of inspection shall include a declaration on whether the features have been inspected, and are maintained satisfactorily and functioning well.

# ABC WATERS PROFESSIONALS COURSE – ELECTIVE MODULE EU 1

## Design, Construction and Maintenance of Sedimentation Basins (14<sup>th</sup> Run)

### Course Schedule

Time	Content	Lecturer
8.55am - 9.00am	ABC Waters Professional Programme – Overall Course Roadmap	IES Academy
9.00am - 10.00am	Introduction to theory of Sedimentation Basin	Dr Edmund Low
10.00am - 10.15am	Break (15min)	
10.15am - 12.00pm	Brief Recap of hydrology hydraulics Engineering Design of a Sedimentation Basin <ul style="list-style-type: none"> <li>• Sizing considerations</li> <li>• Flow considerations</li> </ul> To cover engineering design example	Dr Edmund Low
12.00pm - 1.00pm	Lunch (1 hour)	
1.00pm - 2.30pm	<ul style="list-style-type: none"> <li>• Introduction to types, design and other practical aspects of sedimentation basins</li> <li>• Safety by design</li> </ul>	Mrs Ong Geok Suat
2.30pm - 3.00pm	<ul style="list-style-type: none"> <li>• Sharing of case studies</li> <li>• Working through a design case study</li> </ul>	Mrs Ong Geok Suat
3.00pm - 3.15pm	Break (15min)	
3.15pm - 4.30pm	<ul style="list-style-type: none"> <li>• Construction and maintenance requirements</li> </ul>	Mr Luke Lee
4.30pm - 5.30pm	Assessment Quiz	IES Academy

# **ABC WATERS PROFESSIONALS COURSE – ELECTIVE MODULE EU 1**

## **Design, Construction and Maintenance of Sedimentation Basins (13<sup>th</sup> Run)**

### **Trainers Profile**

#### **Dr Edmund Low**

Dr Edmund Low is currently a Senior Lecturer at NUS College at the National University of Singapore. He has taught courses on environmental engineering, data science & health and safety. He has nearly 20 years of research and professional experience spanning the application of computational modelling and engineering principles to address issues in public health, air and water quality. He has provided advice for formulating control strategies against pollution sources, and has also carried out impact assessment studies of climate and urban land use changes on Singapore catchments. He received his PhD in Environmental Engineering from Yale University.

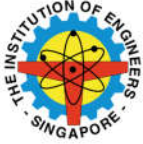
#### **Mrs Ong Geok Suat**

Mrs Ong Geok Suat graduated with a Bachelor in Civil Engineering from National University of Singapore. She also obtained a Master of Applied Science in Environmental Engineering from University of Toronto, Canada.

She has over 20 years of experience in planning and designing both drainage and used waters infrastructure as well as in the operation and management of water reclamation and NEWater facilities. Previously working in PUB, she was involved in the formulation of ABC Waters Design Guidelines, ABC Waters Certification, ABC Waters Professional Programme and pilot testing of ABC Waters Design features. She was also involved in the implementation of an ABC Waters Precinct in Punggol East C39, monitoring of ABC Waters pilot projects and applied R&D in catchment characterization and bioretention system.

#### **Luke Lee**

Mr Luke Lee began his career as a profession in interior design with his own design and build company. His main interest in design is to turn a volumetric space so much as to satisfy clients' needs. After many years working within a confined space, he decided to move on to a bigger volumetric space that is beyond four walls. He went for his dream and attained a Bachelor of Landscape Architect in Lincoln University, New Zealand. Since then, he had worked as a Landscape Architect for more than ten years in landscape industry. His passions in design and accumulated technical knowledge as well as more than twenty years as an interior designer have made him a successful leader. He always possesses a strong desire in sharing his knowledge and skill to whoever he comes across. He is also an Adjunct Lecturer in BCA Academy, teaching Landscape Technology and Planting Design Management. Luke has also attained his certification as an Active, Beautiful and Clean (ABC) Waters Professional and is practising as a professional as well as teaching in ABC Waters professional courses conducted by Public Utilities Board (PUB). His passionate interest towards his work and knowledge definitely is an added value in the pursuit of excellence in designs and projects.



<b>Course Date</b>	:	10 December 2024 (Tuesday)
<b>Course Time</b>	:	9.00am to 5.30pm
<b>Venue</b>	:	IES Academy@Jurong East 80 Jurong East Street 21, #04-10 Devan Nair Institute (e2i), S(609607)
<b>Course Fee</b>	:	\$381.50 (IES/SIA/SILA Members) / \$468.70 (Non-Members)
<b>CPD Programme</b>	:	7 PDU (ABC), 7 PDU (QECP), 4 CPD (SILA), 2 CPD (SIA-BOA), PDU (PEB/CEng) - <i>To be confirmed</i>
<b>Course Coordinator</b>	:	Nancie Neo Email: <a href="mailto:nancie.neo@iesnet.org.sg">nancie.neo@iesnet.org.sg</a>
<b>Closing Date</b>	:	15 November 2024, Friday ( <i>or earlier, when all seats filled</i> )

**Participant's Details**

<b>Name</b>	:		<b>NRIC/FIN No</b>	:		
<b>Company</b>	:		<b>Designation</b>	:		
<b>Address</b>	:					
		<b>Postal Code</b>	:			
<b>Mobile</b>	:		<b>Office</b>	:		
<b>Email</b>	:					
<b>Please indicate if any</b>	<input type="checkbox"/>	<b>IES No:</b>	<input type="checkbox"/>	<b>SIA/SILA No:</b>	<input type="checkbox"/>	<b>Non-Member</b>
	<input type="checkbox"/>	<b>PE/CE No:</b>	<input type="checkbox"/>	<b>Company Sponsor</b>	<input type="checkbox"/>	<b>Vegetarian</b>
<input type="checkbox"/>	<b>Vendors@GOV</b>	<b>Sub-BU Code:</b>	<b>Attention To:</b>			

**Contact Person's Details (If different from participant)**

<b>Name</b>	:		<b>Designation</b>	:	
<b>Mobile</b>	:		<b>Office</b>	:	
<b>Email</b>	:				

\*All course fees are inclusive of 9% GST and course materials.

\*Certificate of Attendance will be issued to participants with 100% attendance.

**Acceptance of Terms & Conditions for Registration of IES Academy's Courses/Events**

I agree to abide by the Terms and Conditions for Registration of IES Academy's 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. Payment via **PayNow and Bank Transfer** available.

### 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.