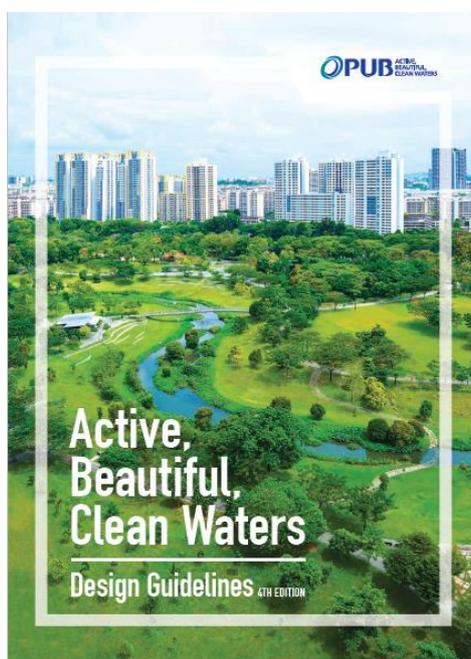




ABC WATERS PROFESSIONALS COURSE – CORE MODULE CU 1 (Understanding ABC Waters Design Guidelines and Certification) 15th Run

Organised By: IES Academy Pte Ltd



- Date of Course** : 06 January 2023 (Friday)
- Time of Course** : 9.00am to 5.45pm
- CPD Programme** : PDU (QECP/PEB/CEng) / 4 CPD (SILA) - TBC
- Venue** : IES Academy@Jurong East
80 Jurong East St 21 #04-10 S(609607)
- Course Fees** : \$374.50 (IES/SIA/SILA Members)
(incl. 7% GST) \$460.10 (Non Members)

NOTE: Payment made in 2023 will be subjected to prevailing GST rate

Supported by:



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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 water 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 Sep 2011. Comprising four core modules and four elective modules, the programme covers the concept, 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.

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Course Outline & Schedule

Time	Course Description	Speaker
8.30am – 9.00am	Registration	
9.00am – 10.15am	<ol style="list-style-type: none"> 1) ABC Waters Professional Programme - Overall Course Roadmap 2) Singapore Water Story 3) Introduction to the ABC Waters Programme <ul style="list-style-type: none"> • History of ABC Waters Programme • Driving forces for the programme and sustainable stormwater management 4) ABC Waters Design Guidelines <ul style="list-style-type: none"> • Catchment, treatment, collection & storage elements • Treatment elements – ABC Waters design features • Public health, safety and maintenance considerations 	Mrs Ong Geok Suat
10.15am – 10.30am	Break	
10.30am – 11.00am	<ol style="list-style-type: none"> 5) ABC Waters Certification Scheme <ul style="list-style-type: none"> • Criteria, Submission requirements - Checklist • Certified projects 6) Submission requirements for developments <ul style="list-style-type: none"> • Code of Practice on Surface Water Drainage • Submission guide 	Mrs Ong Geok Suat
11.00am – 12.00pm	<ol style="list-style-type: none"> 7) Mainstreaming ABC Waters design - Masterplanning in the context of ABC Waters design <ul style="list-style-type: none"> • Design Considerations • Infrastructure Planning • Developing a blue-green masterplan <p>Hands-on Application – Developing a ‘Blue-green’ Masterplan for a hypothetical greenfield estate site (40mins)</p>	Ms He Qihui / Lyn
12.00pm – 1.00pm	Lunch Break	
1.00pm – 1.50pm	<ol style="list-style-type: none"> 8) Integrating ABC Waters Design in Project Planning & Integration of Waterbody Design in Masterplan and Architectural Concept 	Mr Owen Wee

1.50pm – 2.40pm	<p>9) Design principles from a LA perspective</p> <ul style="list-style-type: none"> • Principles of ABC Waters Design • Landscape design considerations • Design matrixes 	Mr Koh Jiann Bin
2.40pm – 2.55pm	Break	
2.55pm – 3.30pm	Assessment Quiz	
3.30pm – 5.45pm	<p>Site Visit*</p> <p>– A project that showcases mainstreaming ABC Waters design and interdisciplinary planning at Waterway Ridges</p> <p><i>*Prevailing COVID-19 safe distancing measures will be taken</i></p>	Mr Koh Jiann Bin & Mr Owen Wee

*There will be transport provided to Waterway Ridges (one way)

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Speakers' Profile

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. She is currently working in PUB. She is 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 is currently 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.

Ms He Qi Hui

Ms He Qihui is a Water Engineering Specialist with over 10 years of experience in planning, designing and implementing drainage and ABC Waters Projects in Singapore. Examples of the projects undertaken by her includes ABC Waters project at Bishan-Ang Mo Kio Park and constructed wetlands at Alexandra Canal. She specialises in designing ABC Waters Design Features such as wetlands, rain gardens and swales for public spaces in Singapore.

Qihui is currently holding the position of Principal Engineer in the Catchment & Waterways department at PUB, Singapore's National Water Agency. Her team is involved in overseeing drainage planning matters in the Eastern and Northern parts of Singapore. She personally hopes to see more of our waterways being utilised as vibrant recreational spaces and hopes that by bringing people closer to water, they understand the importance of water and see themselves as guardians of Singapore's water resources.

Ms Liu Huei Lyn

Trained in both architecture and landscape architecture, Huei Lyn graduated from the University of Miami (Bachelor of Architecture) and Harvard University (Master in Landscape Architecture). Her interests are geared towards urban planning and open space design. While based in the United States, she worked on a diverse range of projects; masterplanning to detailed design and construction implementation in North America, China and the Middle East. Since moving back to Singapore, she has been instrumental in completing several public projects that have a holistic approach towards landscape architecture and stormwater management. Currently she is part of the ABC Waters masterplanning and implementation team at PUB, working on creating sustainable, blue-green public spaces for Singapore.

Mr Owen Wee

Owen Wee has been working in the architecture field since graduating and has been involved in a wide range of projects that include a National Park Board East Coast Park Master Planning, public housing, private housing, competition for Fire stations and Lasalle Arts School. He was involved in a number of large scale projects in China, such as, master planning of Shenyang (Su Jia Tun), Yanlord Guiyang mixed development etc. He was the contract administrator and as well as design and project architect for most of the projects he was involve in while posted to Shanghai for 2 years.

Owen joined Surbana International Consultants in November 2004 and has been working on various projects in Singapore since then. With his vast experience and knowledge in architecture and master planning he has won the SIA GOLD Design Award 2006 for his involvement in the Marina South Pier as well as BCA's Buildability Award 2007 and BCA Barrier Free and Accessibility 2008 for his work for the Sengkang public housing project 'Coris II'. His contractual and project delivery knowledge are also important assets that the company has tapped on by setting up the computerised guide for commissioning of buildings.

Mr Koh Jian Bin

Jiannbin has devoted his consulting practice to water-sensitive design in the urban environment for the past 10 years. He has extensive technical experience with the use of nature-based solutions to manage and express stormwater in urban spaces and parks. With his unique combination of expertise in design and engineering, Jiannbin applies transdisciplinary thinking and adopts an integrative design approach in his practice. Some of his recent works include the stormwater management design and master plan for a large national garden, the preliminary design for land-use revitalisation along a canal, and ABC Waters design for various HDB greenfield developments. He has worked with such clients as PUB, HDB, NParks, CDL, DPA, and ARUP. Jiannbin is a registered ABC Waters Professional and a committee member of the ABC Waters Programme. He is both a Chartered Engineer and an Accredited Landscape Architect. He is also a certified horticulturist (CUGE CPH) and arborist (ISA).



REGISTRATION FORM

ABC WATERS PROFESSIONALS COURSE – CORE MODULE CU 1 (Understanding ABC Waters Design Guidelines and Certification) 15th Run

Course Date	:	06 January 2023, Friday
Course Time	:	9.00am to 5.45pm
Venue	:	IES Academy@Jurong East 80 Jurong East Street 21, #04-10 Devan Nair Institute (e2i), S(609607)
Course Fee	:	\$374.50 (IES/SIA/SILA Members) / \$460.10 (Non Members) Payment made in 2023 will be subjected to prevailing GST rate
CPD Programme	:	PDU (QECP) / CPD (To be confirmed)
Course Coordinator	:	Nancie Neo Email: nancie.neo@iesnet.org.sg
Closing Date	:	9 December 2022, Friday

Participant's Details

Name	:		NRIC/FIN	:		
Company	:		Designation	:		
Address	:					
		Postal Code	:			
Mobile	:		Office	:		
				Fax	:	
Email	:					
Please indicate (where applicable)	<input type="checkbox"/>	IES No:	<input type="checkbox"/>	SIA/SILA No:	<input type="checkbox"/>	PE/CEng No:
	<input type="checkbox"/>	Non Members	<input type="checkbox"/>	Company Sponsor	<input type="checkbox"/>	Vegetarian (if food is being catered for)

Contact Person's Details (If different from participant)

Name	:		Designation	:	
Mobile	:		Office	:	
				Fax	:
Email	:				
Payment Details		Cheque (if any):		Amount:	

*PayNow & Bank Transfer available. Please email to enquire.

*Listed course fees are inclusive of 7% 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. **PayNow & Bank Transfer available.** Cheques should be crossed 'A/C payee only' and made payable to '**IES Academy Pte Ltd**', with the ***Title of The Event indicated clearly written on the back of the cheques***, and submitted with the duly completed registration forms to:

Attn: Nancie Neo
IES Academy@Jurong East
Devan Nair Institute for Employment and Employability,
80 Jurong East Street 21, #04-10
Singapore 609607

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.

Course Funding

This course is supported by **UTAP (Union Training Assistance Programme)** for NTUC members. For more information on claiming course fee, please refer to NTUC SkillsUpgrade website.

<http://skillsupgrade.ntuc.org.sg/wps/portal/skillsupgrade/home>

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.