

Certification Course for Piling Personnel

For Piling Engineers, Technical Managers, QPP, CB-Technical Experts and Auditors according to the qualifications stated in SAC CT31 and CT32.

For Piling Supervisors' level, please refer to the Flyer for the Course Run on 13 & 15 March 2024)



Introduction / Objective

The course aims to provide the necessary training for the key supervisory personnel for piling industry. It also serves to certify the trained candidate to be qualified to serve in the piling industry as technical manager, piling engineer, site operation supervisor, certification body technical auditor, and other relevant position, as required by Singapore Accreditation Council (SAC) CT31 and CT32 on Certification on Specialist Builders (Piling) Scheme.

This course is one of the key components in "Certification on Specialist Builders (Piling) Scheme" contributes toward enhancing the piling professionalism, improving quality of piling works for safety of buildings on piles, and ensuring competencies of the piling companies in Singapore.

Course Outline

- Introduction on Pile Foundation
- Operation and Maintenance of Piling Machinery
- Pre-operation Preparation Work
- Pile Installation Work
- Quality Check and Testing
- Manage Piling Record

Who should attend?

For attending and passing the test:

Certified Piling Personnel (CPP): Piling Technical Managers, Piling Engineers, Qualified Piling Professionals (QPP): PE (Civil), Certification Bodies (Technical Expert).

For general groups who have interest to attend:

Developers, Consultants, PE(Geo), General Contractors, Certification Bodies (Auditor), Piling Supervisors, Assistant Engineers, Piling Engineers, Resident Engineers, Public Officers involved in piling approvals, supervision/management, etc.



ER. DR. CHEW SOON HOE, a Professional Engineer, graduated with PhD from the University of California at Berkeley, USA. He is currently an Assistant Professor with the Department of Civil and Environmental Engineering, National University of Singapore. He was the Deputy Director of the Centre for Protective Technology (CPT), a research and development centre jointly formed by the Ministry of Defence, Singapore, and NUS. He is currently the Director of SSI (Safety Study Initiative), NUS, and President of ASCE (Singapore Chapter). His research and consultancy experiences include ground improvement, land reclamation, geosynthetics and general foundation engineering.



Course Details

Date: 23 & 25 April 2024
(for piling engineers' level and above)

Duration: 2 days (12 hours)

Time:
9:30am to 4:30pm - *Classroom training*

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

CPD : 11 PDU / 12 STU (Stru)

Fee (inclusive of 9% GST): S\$916.82

TEST & AWARD

Participants must achieve at least 75% attendance to sit for the 30mins test at end-of-course. Those who pass the test will be awarded the e-Certificate of Successful Completion(e-CSC). Participants who did not pass the test will be issued with e-Statement of Attendance (e-SOA).

Contact person:

Eddie Seng, Tel: 6460 4248

Email: eddie.seng@iesnet.org.sg

Time	Topics
Day 1	
9:30am -12:30pm	<ol style="list-style-type: none"> 1. Introduction on Pile Foundation <ol style="list-style-type: none"> a) Types of Pile b) Function of pile c) Basic design concept 2. Operation and Maintenance of Piling Machinery <ol style="list-style-type: none"> a) Bored Pile b) Diaphragm Wall c) Displacement pile d) Micropile e) Sheet pile
12:30pm to 1:30pm	Lunch
1:30pm -4:30pm	<ol style="list-style-type: none"> 3. Pre-operation Preparation Work <ol style="list-style-type: none"> a) SI understanding b) Site planning c) Machine mobilization d) Scheduling e) Manpower allocation
Day 2	
9:30pm -12:30pm	<ol style="list-style-type: none"> 4. Pile Installation Work <ol style="list-style-type: none"> a) Bored Pile b) Diaphragm Wall c) Displacement pile
12:30pm to 1:30pm	Lunch
1:30pm -4:00pm	<ol style="list-style-type: none"> 5. Quality Check and Testing <ol style="list-style-type: none"> a) PIT testing b) Coring and sonic testing (pre-prepared) c) PDA test for special case d) Verticality check e) Diameter check f) Concrete volume check 6. Manage Piling Record
4:00pm – 4:30pm	Test (10MCQs + 5 Short Questions)

Registration Form

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Singapore 609607

Please note that Piling Contractors and other participants shall get themselves familiarized with the requirement on Section 5 & Table 5.1 of CT32: SAC Criteria for Specialist Builders (SB) - Piling Works (PW); particularly for meeting requirements on qualification and piling experience. Attending the Course and passing the Test is only partial fulfillment for registration as Certified Piling Personnel (CPP) of Piling Contractors with IES/GeoSS after successfully passing the Test.

Piling Contractors are also advised to apply to Certification Body (CB)-Piling Works, whenever they are ready to be audited and certified as SB (PW).

Please note that QPP cannot be appointed as CB (Technical Expert); CB(Technical Expert) cannot serve as QPP for the SB(PW) at the same time. Please register with IES/GeoSS accordingly after successfully passing the Test for the registry of QPP and CB(Technical Expert).

Certification Bodies are to be accredited by SAC Accreditation Panel accordingly under CT31 for an Accreditation Scheme for Certification Bodies.

Please fill up the forms according to your plan to apply to the Registry under SAC CT31 or CT32. This must also be in accordance with your academic qualification and years of experience in piling works; and **NOT** according to your current job designation.

Registration for Certified Piling Personnel (CPP):

<https://form.jotform.com/240291139362453>

Registration for Qualified Piling Professionals (QPP):

<https://form.jotform.com/240108505422444>

Registration for Certification Body (CB) - Piling Auditor (PA):

<https://form.jotform.com/240107911589458>

Registration for Certification Body (CB) - Technical Expert (TE):

<https://form.jotform.com/240108171133442>