

TRAINING COURSE 24, 25 & 26 JUNE 2022

Quality Control/Quality Assurance of Deep Foundation Testing

Venue: American University in Dubai (AUD), Sheikh Zayed Rd - Al Sufouh - Al Sufouh 2 - Dubai - United Arab Emirates



Dr CR Parthasarathy

PhD, IISc , Bangalore

Founder, Chairman & Managing Director (SGES)

Member of IGS for the third time and currently Chairman of the IGS-Bengaluru Chapter. He has nearly 3 decades of Industrial experience in Geotechnical Engineering for both Onland and Offshore constructions and trained more than 150 personnel over the last 3 year

Dr CR Parthasarathy is the founder director of Sarathy Geotech & Engineering Services Pvt Ltd (SGES). He has undertaken several consulting assignments in field of Pile Foundations Geotechnical Investigation, Foundation assessment of structures, deep foundation Testing for both Onland and Offshore Projects. He is the Fellow of Indian Geotechnical Society Elected National Executive

Hazem Sarhan, Ph.D., P.E. is the General Manager of ADEC Engineering Consultancy with 25 years' experience in maritime, oil and gas, power generation, industrial and LNG projects. Dr. Sarhan graduated with honors from Cairo University and earned his Ph.D. in Geotechnical and Civil Engineering from the University of Houston, Texas. Dr. Sarhan worked in Bechtel Oil and Gas in Houston between 2001 - 2007 on several challenging engineering and construction assignments in North America, West Africa, Egypt and Trinidad & Tobago. Dr. Sarhan was Projects Director with ARTELIA between 2007 - 2018, working and managing projects in maritime, ports, and oil and gas in the Middle East. Dr. Sarhan combines strong technical skills with a seasoned experience in design, construction and management of large, multidisciplinary and complex projects. He has a proven record of coordinating and motivating the efforts of diverse engineering teams to deliver solutions for challenging assignments. He is passionate about advancement of the state of the art innovations in Geotechnical and Deep Foundations.

Hazem Sarhan

Ph.D.(USA), P.E,
General Manager in ADEC Engineering Consultancy



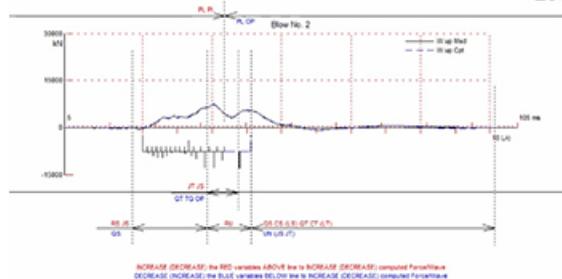
Topic Discussed

"ALL TOPICS WILL BE COVERED WITH REAL TIME DATA & CASE STUDIES"

- Introduction
- Wave Mechanics (Theory & Background)
- Pile Integrity Methods (PIT & CSL)
- Proper Practice - How to do it right
- PDA Data quality assessment, application & Interpretation
- CAPWAP Theory, Operations & Examples
- SPT Energy methods
- SHAPE & SQUID
- PDA Assessment Quiz



Duration : 2.5 days
Programme Time : 9.00 to 18.00 hrs



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Website: www.sarathygeotech.com, www.pile-max.com

For Registration and Payment

Contact : +91 98448754 38

For Details: <https://forms.gle/pRoSgqZkpSKyGVGB8>

Program:

Day 1: QA/QC for Deep Foundations

- 09:00 Registration
- 09:30 QA/QC of Deep Foundations (pre- or during installation) Introduction - Why do we test?
- 11:00 Break
- 11:15 Wave mechanics - integrity, Stress, capacity calculations
- 13:00 Break/Lunch
- 13:45 PIT, PIT Software Training and discuss on case study.
- 15:15 Break
- 15:30 CSL and discuss on case study.
- 18:00 Adjournment

Day 2: Training

- 09:00 PDA Testing – Proper Practices
- 11:00 Break
- 11:15 Proper Practice Continued with application and interpretation of results
- 13:00 Break/Lunch
- 13:45 CAPWAP Theory
- 15:45 Break
- 16:00 CAPWAP Examples with case studies
- 18:00 Adjournment

Day 3: Training

- 09:00 SQUID, SHAPE, SPT Analyzer with case studies
- 11:00 Break
- 11:15 Assessment Quiz
- 12:00 Discussion - Issue certificate
- 12:45 Closing Address
- 13:00 Adjournment

Who should attend:

This seminar is suitable for those in the field of deep foundation testing and analysis and includes an overview of recent advances in non-destructive testing methods (load testing and integrity testing) of bored piles and driven piles. It is also suitable for:

- Consultants, owners, contractors and governmental officials who specify testing of deep foundations
- Geotechnical, structural and construction engineers
- Student and professors involved in the design, construction and specification of deep foundations
- Users of the Pile Driving Analyzer® (PDA) system and CAPWAP® software interested in sharpening their skills.
- Engineers, foundation testing professionals, students and professors already familiar with the basic concepts of deep foundation dynamic testing and analysis.
- Professionals who desire to have a basic understanding of the dynamic test results being presented to them.

Learning Objectives:

At the end of the one-day seminar, attendees should be able to:

- Understand basic concepts of various field testing applications including static tests, dynamic tests and other NDT methods (e.g. crosshole sonic logging, low strain integrity testing, thermal integrity profiling, calipers, SPT Energy Measurement and other inspection devices)
- Learn the advantages and limitations of various integrity and capacity methods in assessing bored piles and driven piles and choose the appropriate methods for analysis.
- Understand basic concepts of PDA testing and advancements in dynamic load testing of bored and driven piles.
- Operate the PDA in a manner conducive to acquiring good quality data
- Assess pile bearing capacity, pile driving stresses, hammer performance and pile integrity by various methods
- Avoid pitfalls when analyzing PDA data with the CAPWAP software
- Interpret PDA testing and CAPWAP software results
- Describe the soil-model used in CAPWAP
- Prepare the input for CAPWAP
- Review options for CAPWAP analysis and output
- Calculate bearing capacity and its distribution for driven piles

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