



Quality Control/Quality Assurance of Deep Foundations One-day Seminar



Friday, 02 November, 2018
Park Regis North Quay
293 North Quay, Brisbane QLD 4000

Who Should Attend?

This one-day 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

Learning Outcomes

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, callipers, 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.

Agenda

QA/QC for Deep Foundations

08.00	Registration
08.30	QA/QC of Deep Foundations (pre- or during installation) Overview - Why do we test? Shaft Quantitative Inspection Device (SQUID) Shaft Area Profile Evaluator (SHAPE) Pile Installation Recorder (PIR) Pile Integrity Tester (PIT)
10.00	Break
10.15	QA/QC of Deep Foundations (post installation) Crosshole Sonic Logging (CSL) Thermal Integrity Profiling (TIP) Wave Equation Analysis with GRLWEAP Pile Driving Monitor – PDM
12.30	Lunch
13.15	Static Load Testing and the Static Load Tester (SLT) System High Strain Dynamic Pile Testing with the Pile Driving Analyzer®
15.45	Break
16.00	High Strain Dynamic Load Testing of Drilled Shafts with the PDA-DLT Australian Codes and Economics of Dynamic Testing
16.30	PDCA/PDI Proficiency Test - OPTIONAL
18.00	Adjourn

A Certificate of Participation documenting the number of hours of instruction (PDH) will be provided. Check with your engineering board of registration for their continuing education requirements.

At the end of the Workshop participants may take a multiple choice Dynamic Measurement and Analysis Proficiency Test which will take less than 1.5 hours to complete. The test will cover the theory of Wave Mechanics, Case Method (PDA) equations, data quality assessment, data interpretation and basic CAPWAP analysis. The test is designed for those with experience in using the Pile Driving Analyzer® system and CAPWAP to perform High Strain Dynamic Foundation Tests. The best preparation for the test is work experience following an initial PDA training. The workshop will refresh the participant's theoretical background and be a reminder of some important points. Those taking the test are advised to study "Appendix A" and "Helpful Hints" of the PDA manual, review some of the EXAMPLE data provided with the PDA and read the CAPWAP background material. These materials are supplied with PDA purchases. Those without access to the manuals and examples should please contact softwaresales@pile.com in advance of the test date. For more information about the Proficiency Test website: www.PDAProficiencyTest.com

A Certificate of Proficiency in High Strain Dynamic Pile Testing will be awarded to those who pass the test. The level indicated on the certificate is dependent on the score achieved on the test. Those who do not pass the test will receive full credit of test registration fee to be applied towards retaking the test at the next opportunity.

Please note it will take up to two weeks to receive your exam results



LECTURER

Patrick Hannigan, P.E., is a Senior Engineer and Director with Pile Dynamics, Inc. He has a BS in Civil Engineering from the University of Notre Dame, and a MS in Civil Engineering from the University of Missouri-Rolla. He has published in numerous journals and was the Principal Investigator for both the 1995 and the 2006 editions of the Federal Highway Administration manual "Design and Construction of Driven Pile Foundations". Pat is a Co-Principal Investigator for the National Cooperative Highway Research to incorporate specifications into AASHTO code. He is a Licensed Professional Engineer in 17 states. Hannigan has achieved Expert level on the PDCA/PDI Dynamic Measurement and Analysis Proficiency Test. He is a member of the American Society of Civil Engineers, Deep Foundations Institute and Pile Driving Contractors Association.

Registration

Limited number of participants. Please complete the below registration and return via email to registration2@pile.com by **Friday, 26 OCTOBER, 2018**

Registration Form - Please fill out and email to richard@empasia.co or registration2@pile.com

Name(s)		
Organisation		
Address		
City		
State/Province		
Postal Code		
Country		
Phone		
Fax		
Email		
Registration Fees (includes course notes, breakfast, AM/PM breaks and lunch):	Cost	Selection
One-Day Seminar	\$330 AUD	<input type="checkbox"/>
Dynamic Measurement and Analysis Proficiency Test	\$330 AUD	<input type="checkbox"/>
Amount: Programme total	\$	

If you do not pass the test you are allowed one (1) retake the test at no additional charge at the next workshop

Additional Information

PAYMENTS:

Electronic Transfer EFT: Commonwealth Bank BSB: 063236 Account No: 1034 2987 Name: EMP Piletec Pty Ltd

Payment also available via credit card. Please email either richard@empasia.co or registration2@pile.com for the credit card form. **NOTE: AUD to USD exchange rates change daily.**

Hotel Reservations: Attendees should make their own hotel reservations: w.parkregisnorthquay.com.au

Refund Policy: Cancellations prior to three weeks before the event would receive a 50% refund.

For more information, contact Richard Yu from EMP Piletec Pty Ltd: O: +61 3 9893 4286, M +61 430 30 480 email: richard@empasia.co, or info@pile.com.