



Quality Control/Quality Assurance of
Deep Foundations
PDA Training and Proficiency Test
Two-day Workshop



30 - 31 October, 2018
Sage Hotel Ringwood, Melbourne
211 Maroondah Hwy, Ringwood, VIC 3134, Australia

Who Should Attend?

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.

Those interested in taking the **Dynamic Measurement and Analysis Proficiency Test***

Those attending the two-day workshop are strongly encouraged to review the wave equation background materials.

ADDITIONAL INFORMATION

Hotel Reservations should be made by the attendee. Hotel will offer a discounted group conference rate of \$159 per night

Learning Outcomes

At the end of the two-day workshop, attendees will be able to:	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 analysing 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 from impact records

Agenda

Day ONE - PDA Training

08.00	Registration
08.30	Wave Mechanics for PDA Testers
10.00	Break
10.15	PDA-8G and PDA-S
12.15	Lunch
13.00	PDA Testing – Proper Practices
15.15	Break
15.30	Dynamic Testing of Drilled Shafts and Augered Piles
16.30	Pile Driving Monitor - PDM
17.00	Adjourn

Day TWO - PDA Training

08.15	Integrity, Stresses, Energy
09.00	Capacity Calculation
09.45	CAPWAP Background
11.15	Break
11.30	CAPWAP Examples
13.00	Lunch
13.45	Case Histories / Hands-On Training
14.15	PDA Data Quality Examples
15.15	Break
15.30	Dynamic Measurement and Analysis Proficiency Test*
17.00	Adjourn



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 Deadline: 22 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
Two-Day Workshop	\$550 AUD	<input type="checkbox"/>
Dynamic Measurement and Analysis Proficiency Test	\$330 AUD	<input type="checkbox"/>
Amount: Programme total	\$	

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 can change daily.**

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

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

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.

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