

# Site Investigation for Engineers

## INTRODUCTION

This course will provide practicing engineers a good insight into the importance of geotechnical site investigation and its processes. Participants will also learn how to interpret soil investigation reports to ensure safety of the geotechnical works and the surrounding structures.

## CONTENTS

### Introduction to site investigation

- Need and importance of site investigation
- Adequacy of site investigation
- Common problems of site investigation and remedial measures

### Scope and extent of site investigation

- Parameters to be measured
- Planning for site investigation
- Geotechnical considerations

### Process of site investigation & tests

- Site investigation methods and their execution
- Geophysical surveys
- Sampling
- in-situ tests and laboratory tests
- Sources of errors and ways to avoid them

### Site investigation reports

- Understanding & interpretation of site investigation reports
- Appropriate use of the information in the report

### Particular considerations for specific geotechnical works

- Deep excavation works
- Foundation works
- Slope stabilization
- Tunneling works

## LECTURER

**ER. YANG KIN SENG** was a former Director with the Building and Construction Authority, regulating and overseeing the safety of buildings and geotechnical building works under construction in Singapore, and headed the Singapore Geological Office. Er. Yang has also served with the now-defunct Public Works Department as Assistant Chief Civil Engineer, Head (Roads, Planning and Design) and Head of Geotechnical Engineering, Site Investigation, Instrumentation and Laboratories. He was the Chief Project Manager (Singapore) for the Singapore-Malaysia Second Crossing. He has published more than 40 papers in International conferences and seminars, and peer-reviewed journals. He co-chaired the SPRING (Singapore) Eurocodes Review Advisory Committee, and the Technical Committee on Civil and Geotechnical Works. He is a Professional Engineer and a Specialist Professional Engineer registered with the Professional Engineers' Board, and a Specialist Accredited Checker whilst in Building and Construction Authority.



## DETAILS

26th Run: To be advised  
 Duration: 4 evenings (12 hours)  
 Time: 6.30pm to 9.30pm  
 Venue: BCA Academy  
 Fee (incl of GST): S\$770.00  
*Refreshments will be provided.*

*In keeping with our green and sustainable practices, course notes will be available in e-format.*

## AWARD

Certificate of Attendance (COA) will be awarded to participants who meet the attendance requirement.

## CPD POINTS

PEB: Pending

## TARGET AUDIENCE

- Practicing Structural & Geotechnical Engineers
- Resident Engineers
- Resident Technical Officers
- Site Engineers
- Construction Managers
- Site Investigation Professionals
- Others who would like an update on site investigation practices



To register, please log into our Online StoreFront (OSF) at <https://eservices.bcaa.edu.sg/registration/#/login> or scan QRcode and search for course code **73078**