

The course will count for 3 hours CPD.

Course content:

- The Submission – basic information required by BCO's
- Soils and soil classification
 - Soil types
 - Filled ground
 - Heave/shrinkage/plasticity
 - Building near trees
 - Groundwater and its effects
 - Drains and services
 - Adjacent structures
 - Subsidence
- Site investigations
 - Basic requirements
 - Flow chart
 - British Standards
- Foundation types
 - Horizontal, vertical, theory of foundation behavior
 - Foundation/soil interaction
 - Strip
 - Deep strip
 - Trenchfill
 - Raft foundations including insulated rafts
 - Mini-piling (for extensions)
 - Mini-pile types
 - Mini-pile applications
 - Ground improvement – basic
 - Theory of improving ground
 - Vibro-stone columns
 - Piling
 - Theory, basic
 - Displacement – driven, precast, steel
 - Replacement – CFA, CHD
- Ground floor construction
 - Ground bearing
 - Suspended, cast-insitu, precast
 - Insulated
- Retaining walls (small)
- Testing and tolerances
- Foundation depth calculators
- Contamination
 - Definitions
 - Investigation and Reports
 - Chemicals found in the ground
- What to look out for/what can go wrong
- Q & A.