

### Training Courses

#### Introduction to SAP2000

This course is intended for new users of the SAP2000 software package. The material presented will start from the very basics of the program and progress through the most commonly used features of the SAP2000 package. The material would be presented in a one day course, covering the basic topics listed below.

- Introduction to the SAP2000 interface
  - Object based modelling of concrete and steel structures
  - Application of static loading
  - Construction sequence loading
  - Modal and response spectrum analysis
  - Linear time history analysis
  - Design and optimisation of steel and concrete structures
  - Manipulation of results
- \* One day course for maximum of up to 10 people £1,500.00 excluding travel and accommodation expenses
- \* Two day course for maximum of up to 10 people £1,900.00 excluding travel and accommodation expenses

#### Advanced Topics in SAP2000

This course is intended for those familiar with the SAP2000 software package and a majority of the topics covered in the *Introduction to SAP2000* course. This course covers the advanced topics of the SAP2000 package, including, but not limited to the topics listed below. The topics covered will be presented using general examples, as these applications tend to be project specific. The material can be condensed and presented in a brief one day course or covered in more detail over two days.

- Alternative model generation methods
  - Constraint options
  - Plane, Asolid, & Solid elements
  - Nonlinear link (NLLink) elements – gap, hook, damper, plasticity
  - Nonlinear link (NLLink) elements – base isolation
  - Plastic hinge elements
  - Nonlinear time history analysis
  - Static pushover analysis
  - Large displacement options
  - Buckling analysis
  - Bridge analysis basics
- \* Price will be supplied if and when this course is requested, prices vary depending on the specific project topics requested.