

L4-LAND SURVEY TECHNIQUES
FIVE-DAY COURSE

THIS COURSE IS DESIGNED TO GIVE SURVEYORS AND ENGINEERS A GOOD GROUNDING IN THE PRINCIPALS AND PRACTICAL APPLICATION OF SITE SURVEYING AND SETTING - OUT.

The course is aimed at the assistant or junior surveyor who is starting to carry out their own small surveys and requires more theoretical and practical training in 'best practice'. The course assumes that the student has either completed the Survey Schools Surveying Equipment Course' or has experience of using surveying equipment.

The Course includes the calculation and adjustment of traverses, resection, detail surveying, the calculation of co-ordinates and bearings and distances to enable the surveyor to calculate or check the required setting-out points from given drawings.

Practicals are used to back up the theory learned in the class room.

A knowledge of Mathematics and the use of the scientific calculator prior to coming on the course would be an advantage.

SUMMARY OF MAIN TOPICS COVERED BY THE COURSE

- Safety on site.
- Use of the scientific calculator.
- Principles of survey control.
- Installation of control stations.
- Principles of survey adjustment.
- Traversing.
- Resection.
- Detail mapping using feature codes.
- Downloading data.
- Practical surveying exercises.
- Calculations – grids, co-ordinates, angles, bearings, basic trigonometry.
- Setting out structures from co-ordinates.
- Using reference line functions.
- Introduction to GPS and different types of grid systems.