

## Land Surveying courses

### **L1 - LEVELLING**

#### **TWO DAY COURSE**

THIS COURSE IS DESIGNED FOR PEOPLE SUCH AS ARCHITECTS, ENGINEERS, PLANNERS, ENVIRONMENTAL WORKERS, SITE SUPERVISORS AND OTHERS WHO NEED TO BE ABLE TO TAKE LEVELS USING A LEVEL INSTRUMENT AND STAFF. THE COURSE TAKES THE STUDENT THROUGH THE THEORY AND PRACTICE OF LEVELLING FROM FINDING ELEVATIONS TO CHECKING THE INSTRUMENT.

### **L2 - TOTAL STATIONS**

#### **THREE-DAY COURSE**

THIS COURSE IS DESIGNED TO GIVE ENGINEERS AND PERSONNEL IN THE CONSTRUCTION INDUSTRY A GOOD GROUNDING IN HOW TO USE MODERN TOTAL STATIONS AND IS AIMED AT NEW RECRUITS OR STAFF WHO HAVE LITTLE OR NO EXPERIENCE OF USING MODERN TOTAL STATIONS. THE COURSE COVERS BEST PRACTICE IN THE USE OF TOTAL STATIONS AND COVERS BASIC DETAIL SURVEYING AND SETTING OUT.

### **L3 - SURVEYING EQUIPMENT**

#### **FIVE-DAY COURSE**

THIS COURSE IS A COMBINATION OF OUR LEVELLING AND TOTAL STATION COURSES AND IS DESIGNED FOR PEOPLE SUCH AS ARCHITECTS, ENGINEERS, PLANNERS, ENVIRONMENTAL WORKERS AND THOSE WHO MIGHT WISH TO GO ON TO TRAIN AS SURVEYORS AND WHO NEED TO BE ABLE TO TAKE LEVELS USING A LEVEL INSTRUMENT AND STAFF AND ALSO TO HAVE AN INTRODUCTION TO MEASUREMENT WITH A TOTAL STATION INSTRUMENT.

### **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 INCLUDES THE CALCULATION AND ADJUSTMENT OF TRAVERSES, RESECTION, DETAIL SURVEYING AND BEARINGS AND DISTANCES TO ENABLE THE SURVEYOR TO CALCULATE OR CHECK THE REQUIRED SETTING OUT POINTS FROM DRAWINGS.

## Setting Out courses

### **S1 - BASIC SETTING OUT** FIVE-DAY COURSE

THIS COURSE IS DESIGNED TO GIVE SITE STAFF IN THE CONSTRUCTION INDUSTRY AND PERSONNEL IN MANY OTHER FIELDS A BASIC KNOWLEDGE OF USING SURVEYING INSTRUMENTS AND SETTING-OUT ON SITE USING MAINLY THE LEVEL AND TOTAL STATION.

CANDIDATES ARE NOT REQUIRED TO HAVE ANY PREVIOUS EXPERIENCE OF USING SURVEYING EQUIPMENT.

### **S2 - SETTING OUT** FIVE-DAY COURSE

THIS COURSE IS DESIGNED TO GIVE ENGINEERING GRADUATES AND PERSONS WORKING IN THE CONSTRUCTION INDUSTRY AN UNDERSTANDING OF THE PRINCIPALS AND CALCULATIONS REQUIRED FOR MORE COMPLEX SETTING-OUT CONDITIONS. IT IS PARTICULARLY SUITABLE FOR CANDIDATES WHO HAVE ALREADY COMPLETED OUR S1 COURSE.

### **S3 - ADVANCED SETTING OUT** FIVE-DAY COURSE

THIS COURSE IS AIMED AT THE EXPERIENCED SITE ENGINEER WHO REQUIRES TRAINING IN THE PRINCIPLES AND APPLICATIONS OF SETTING OUT ON DIFFERENT TYPES OF SITES AND STRUCTURES AS WELL AS SETTING OUT USING GPS.

### **S4 - SETTING OUT FOR ENGINEERS** FIVE-DAY COURSE

THIS COURSE IS DESIGNED TO GIVE ENGINEERING GRADUATES AND PERSONS WORKING IN THE CONSTRUCTION INDUSTRY EXPERIENCE IN THE PRINCIPALS AND PRACTICAL APPLICATION OF SITE SETTING-OUT.

ALTHOUGH SOME PARTICIPANTS MAY HAVE SOME PREVIOUS EXPERIENCE WITH SURVEYING INSTRUMENTS THESE ARE REVISED FROM BASICS TO ENSURE THAT EVERYONE HAS A FULL UNDERSTANDING OF THERE APPLICATION.

EMPHASIS IS PUT ON THE USE OF THE MANY BUILT-IN FUNCTIONS OF THE TOTAL STATION, WHICH CAN GREATLY SPEED UP OPERATIONS AND EFFICIENCY ON THE SITE.