



## **A 2-day workshop on Surveying Skills for Construction Supervisors**

This 2-day workshop will build skills in working with the "level" and to gain confidence in obtaining accurate grade information.

The Course will provide participants with an understanding of the principles of leveling and various terms and definitions in leveling. As well as becoming familiar with the Different types of levels, participants will understand the adjustment to height differences and the layout of grades for construction sites.

### **Course Topics (Day 1)**

- Introduction and course overview
- Types of levels (spirit, laser, total station)
- Types of leveling rods
- Leveling procedures
- Errors in leveling
- Testing and adjusting levels

### **Field Exercise:**

- Setup of instrumentation and peg test

### **Course Topics (Day 2)**

- Field notes
- Calculations of a simple level circuit
- Intermediate shots for profiling and grading
- Procedures for setting out grades
- Setting of benchmarks
- Transfer of elevations

### **Field Exercise:**

- Differential level circuit and calculate closure
- Transfer of elevations from a bench mark
- Setting out stakes and grading from design drawings