

## Short Courses – Construction Supervision

### **Basic Survey Part 3: Theodolite**

#### **PURPOSE**

The purpose of this short course is to develop skills for setting up the theodolite, reading theodolite circles, using theodolite for setting out, measuring distances and angles as well as reference survey points.

#### **Set up theodolite**

- Understand functions and components of a theodolite
- Plumb and level a theodolite
- Eliminate parallax

#### **Understand and read theodolite circles**

- Read theodolite circles
- Understand co-ordinates

#### **Use a theodolite for setting out**

- Run a straight line
- Set out a simple curve

#### **Measure distances and angles**

- Measure horizontal and vertical angles
- Measure slope distance with a theodolite

#### **Reference survey points**

- Reference a point
- Re-establish a point from reference marks