

Short Courses – Construction Supervision

Basic Survey Part 1: Setting Out

PURPOSE

The purpose of this short course is to develop basic setting out skills required for using a metric tape, survey accessory equipment, preserving survey points, using ranging rods, setting out right angles and controlling levels.

Use and maintain a metric tape

- Identify and read metric tape
- Clean a tape
- Measure the distance between two points
- Set out a pin at a stated distance

Use and maintain survey accessory equipment

- Unpack and pack a levelling g staff
- Hold a levelling staff
- Use and understand survey hand signals
- Use and care for a tripod

Preserve survey points

- Concrete in a survey beacon
- Mark and place reference tags on pegs
- Erect guard posts and rails

Use ranging rods

- Range a straight line with ranging rods
- Range a line over a hill
- Step chaining up/down a hill

Set out right angles

- Use an optical square to set out right angles
- Construct a right angle with a tape – 3:4:5 method
- Construct a right angle onto a line from an outside point

Install and control levels

- Install and transfer levels using a spirit level and straight edge
- Install and transfer levels using a water level
- Erect sight rail profiles
- Demonstrate control over excavation levels