1. Course Details:

Course Code : SEGM-003
Course Title : Integrated Monitoring Station and Applications in the Cadastral - Total Station
Course Duration : 5 Days

2. Course Overview:

- This course is designed to give Junior Surveyors, engineers and personnel in the surveying and 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 for both basic detail surveying and setting out and is applicable to candidates working in either the surveying or the construction industries. Practical exercises back up the theory learned in the classroom.

- The Total Station will be used to measure angles and distances, also to store measurements and co-ordinates to be downloaded to a computer for mapping and checking against required measurements. The course is taught with a Manual instrument, to give participants confidence in accurate pointing.

3. Learning Outcomes:

- Setting up total station
- Stationing and orienting to a direction and back sight point
- Resection/free stationing from known points
- Setting out lines and levels for buildings, kerbs, manholes or gullies
- Prism and reflector less surveying
- OSI Planning Packs - digital & paper
- Calculating areas and volumes
- Quality control

4. Course Contents:

- Introduction and Health & Safety (Using a total station)
- Horizontal and vertical angles Total station – angle measurement theory
- Total station – distance measurement theory
- Total station – setting up and using the instrument and Target
- Practical field exercise familiarizing with the Total Station
- Menu system – creating a job – entering co-ordinates
- Slope, horizontal distances and Height Difference Reduction (in the Instrument)

- Practical field exercise measuring targets with the Total Station
- Prism constants and atmospheric settings and Non-Prism reflector less measurements
- Introduction to co-ordinates and how to stablish a new station from a base line
- Using known stations, and back sights, for orientation
- Observing, downloading and plotting of field surveyed points – Field exercise
- Resection and free-station Programs
- Menu system – setting out
- Field practice setting out by co-ordinates
- Menu system – overview of other functions (such as reference line, remote height, tie distance and area)
- Review, questions and close

5. Our Methodology:

- Make coaching and monitoring innovative and using modern
- Media training also using on the go training by using interactive means and focusing on
- The exercises, practical applications and real situations study.
- Live delivery method, instructor-led training.
- Experienced consultant, trainers, and professional.
- Qualified trainer with high-level experience

6. Attendance Reports:

- Send daily attendance reports to trainingdep
- Send full attendance report to training dep. by the end of thecourse
- Attend 100 % from the course days also providedaily
- Issue attendance certificate for participant who attend minimum 80% from the course duration

7. Pre/Post Reports:

- Pre- assessment before starting training.
- Post assessment after finish training
- Full report for the deferent between Pre-& Post assessment

8. Who Should Attend?

- Civil Engineers
- Survey Department Personal

- If you work on a construction site in any capacity that involves setting out or surveying for new buildings, you should know how to use a total station