

## ***Training Program***

### **PortaZoom Camera: PortaZoom Operator**

A basic knowledge of computer technology and digital cartography is becoming a must for inspection camera operators. The market for sanitary sewer and stormwater system diagnosis is changing rapidly and dividing into two distinct segments, namely preliminary zoom inspection and follow-up inspection using standard video technology.

This training session is targeted primarily at zoom camera operators, civil engineering technicians and other employees who may or may not be familiar with the fundamental principles of traditional inspection techniques for sewer and stormwater systems.

### **Program**

This training program covers the basics of obtaining field data using CTSpec. The main themes to be explored are:

- Project creation and configuration
- Creation of an inventory of manholes, pipes, shafts, and so on
- Visual inspection of manholes with synchronized PDAs
- Digital inspection of pipes and manholes
- On-site project management
- System for film header error-correction
- Daily data validation
- Backups
- Use of the query module to generate customized inspection routes

Upon request, the seminar can also cover the following areas:

- Use of CTSpec in conjunction with cartographic software
- Updates of digital plans in Autocad and Arc GIS

### **Objectives**

This training seminar is designed to teach participants how to operate a CTSpec-controlled zoom camera. Operators will develop all the skills required to carry out a preliminary diagnosis of a sanitary sewer or stormwater system using the latest digital technology.