

## **Asset Management of Buried Infrastructure**

DATE: November 21-25, 2016

COURSE CODE: AMMA09-16

LOCATION: Mississauga, ON

FEE: \$1,800

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This course is offered in partnership with the Centre for Advancement of Trenchless Technologies ([www.catt.ca](http://www.catt.ca)) and covers the fundamentals of asset management with particular emphasis on buried infrastructure (water and wastewater pipelines). It will provide an in-depth knowledge of the essential processes and techniques required to establish an effective asset management program for water and wastewater utilities. The course will also highlight the new developments and future trends in the asset management field.

### **Course Content**

- Asset inventory of water and wastewater networks
- System components and attributes
- Data collection and management
- Levels of service and key performance indicators
- Pipe materials and failure mechanisms
- Condition assessment techniques for water systems
- Condition assessment techniques for wastewater systems
- Pipeline rehabilitation and replacement technologies for water and wastewater systems
- Pipeline rehabilitation and replacement decision making for water and wastewater systems (multi-criteria decision making and optimization)
- Finance and pricing for water and wastewater systems (financial sustainability)
- New developments in water and wastewater network asset management

### **Who Should Attend**

Infrastructure professionals and managers with responsibility for the management of municipal water and/or wastewater systems.

### **Format**

In-class case studies, individual assignments and group assignments will reinforce the presentations and class material.

**Evaluation**

Assignments 30%, project 20%, final examination 40%, class participation 10%. Overall grade of 65%. Additionally, students must obtain a minimum of 50% on the final exam.