

Asset Management of Public Buildings

DATE: November 14 - 18, 2016

COURSE CODE: AMAM06-16

LOCATION: TBA

FEE: \$1,800

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LOCATION: Mississauga, ON

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This course discusses the fundamentals of asset management for a wide variety of public buildings. It covers the entire life cycle of building assets from capital investment to disposal, with particular emphasis on planning and accounting for betterments (renewal). The course will allow participants to carry out various analyses on real life cases from their own portfolio of building assets. The course is aligned with the International Infrastructure Management Manual and other initiatives and best practices from around the world. It provides an opportunity for public infrastructure management professionals to gain in-depth knowledge for managing their assets while keeping up optimal performance over the asset's life cycle.

Course Content

- Types of public buildings and identifying categories of assets within a building
- Assigning a value to the asset
- International standards, guidelines and best practices (BOMA, LEED™, ASHRAE, etc.)
- Framework for the management of public building assets
- Data integration and system coordination; data standardization, collection, and record keeping
- Maintenance vs. capital renewal
- Computerized maintenance and facilities management systems
- Condition prediction, rating systems, and inspection scheduling
- Dealing with defects, failure modes, and criticality
- Levels of Service and Key Performance Indicators
- Sustainability requirements and energy management solutions
- Risk assessment and failure modeling
- Budget analysis and developing short and long range plans; financing and alternative funding options
- Decommissioning and disposal of public assets
- Economic justification of capital renewal plans
- Deterioration modeling: deterministic vs stochastic

- Special considerations for key building components: wood, steel, masonry, and concrete structures, HVAC, mould, plumbing and electrical systems
- GIS and BIM applications for facilities management
- Current research on mixed infrastructure systems

Who Should Attend

Middle and senior managers with responsibility for the management of vertical municipal public assets.

Format

To reinforce class material, the course will incorporate in-class mini-cases, individual assignments, group discussions, and a project. Case studies & computer applications will also be used to illustrate practical applications of course content and give examples of agencies using asset management systems.

Evaluation

Evaluation will be based on in-class activities, take-home assignments, quizzes, and a project to be supervised and evaluated by the instructor. Overall grade of 65%.