



Principles of Infrastructure Assets Management



An online course

Dates: January 10 to March 22, 2012

Time: Tuesdays and Thursdays

11:30 AM to 1:00pm Eastern (Ottawa, Canada Time)

Instructor: Dr. Guy Félio, P.Eng. guy.felio@InfraSR.ca

About the course:

Infrastructure assets in Canada are valued to more than \$1.5 trillion. In terms of municipal assets, a majority were built in the post-war era and thus are reaching the limits of their service life.

Asset management is viewed by many as a necessary tool to manage the infrastructure debt that has accumulated over the past decades due to lack of investments in rehabilitation and maintenance.

The course explores the challenges faced by the core physical infrastructure systems municipalities own and operate: potable water systems, waste and storm water collection and treatment, roads and sidewalks, bridges and overpasses. Students will be presented with context of decision-making in a municipal environment. The elements of assets management systems will be evaluated in details, including: inventory, diagnostic and condition assessment, performance and prediction, valuation, planning and life-cycle analysis, and prioritization of interventions.



About the Instructor



Dr. Félio is a civil engineer with a Ph.D. from Texas A&M University. He has more than 25 years of experience in the field as a university professor, researcher, consultant and policy advisor.

During his career at the National Research Council, he led the Urban Infrastructure Research group, focusing on technological and management improvements for municipal infrastructure.

In addition to serving as advisor to public agencies for the development of infrastructure strategies and policies, he is very active on professional associations' boards and committees, and in knowledge transfer through university education and professional training. Dr. Félio is the Project Coordinator for the Canadian Infrastructure Report Card, and was elected in October 2010 Councillor in the City of Clarence-Rockland (Ontario).

Engineering Institute of Canada Continuing Education Units (CEUS)

This course is accredited by the Engineering Institute of Canada (EIC). Successful completion of the course provides the student **with three (3) CEUs**



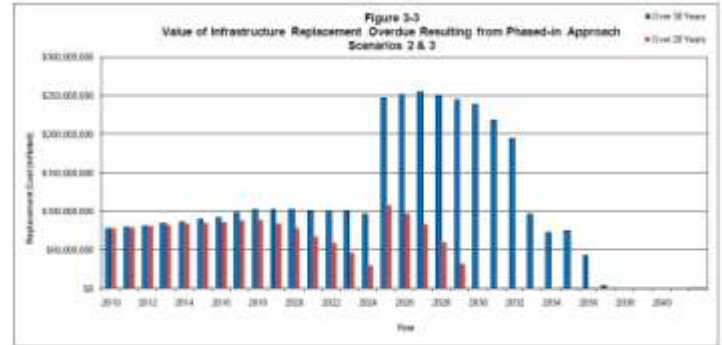


The expected outcomes of the course are:

- Understanding of the principles of asset management applied to community infrastructure.
- Knowledge of the benefits and challenges of infrastructure asset management and ability to communicate them to decision-makers in a community
- Knowledge of how to apply AM principles to water and wastewater systems, building facilities, to roads, culverts, bridges and overpasses, and to other community assets such as solid waste, parks and recreational facilities

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- Understanding of the importance of operations and maintenance planning over the life-cycle of infrastructure
- Understanding the common elements and differences between asset management and asset accounting (PSAB 3150 asset financial reporting requirements)



Fees: As an introductory offer since this is the first offering of the course, the fee is CAD \$500.00 + applicable taxes. You will get 30 hours of instruction – 1.5 hours twice a week, guidance on reading and project assignments, access to class discussion forums or private communications with the instructor, and more.

Limited space available: Enrolment is **limited to 20 students** for high student-instructor interaction. The course will be in English. We plan to offer French and Spanish versions of this course in the future.



Online access: this course is **only available online**. You will need a computer and an internet connection – no software to download (minimum specifications will be provided shortly). You can attend classes from work or home, even while on a trip. Instructional material will be accessible 24/7 so you can review it at your leisure. Student work will be submitted online or via e-mail.

Instruction will be live (instructor on camera with live voice) and students will be able to interact during classes through voice (microphone) or written chats.

Course Pre-requisites: None – this course is aimed at municipal staff and their consultants that want to get a solid understanding of how infrastructure assets can be managed. Future courses will focus on the technical aspects of managing particular types of infrastructure such as roads, water systems, etc.

Pre-registration - Reserve your place today! Registration will open in mid-November on a first-come, first-served basis. Those that will have pre-registered will be given first choice. A more detailed syllabus of the course is available on request.

To pre-register, please send the following information: **Full name; Title/Position; Organization; Mailing address; Daytime telephone number (with country code if outside of Canada); and e-mail**

Send the information to: Info@InfraSR.ca

