

Sustainable Infrastructure: Low-Impact Development & Climate Resilience

Circular Economy & Climate Change
Certificate of Completion Program

Course Overview

📶 Online Live 📅 November 2023 - May 2024

Adaptation to climate change requires the adoption of resilient, engineered green infrastructure to manage stormwater from a quantitative and qualitative perspective. This is of increasing importance for planners, designers, engineers, landscape architects, and construction professionals to ensure that the infrastructure designed today is adaptive to a changing climate.

This immersive, conference-style Sustainable Infrastructure Program: Low-Impact Development and Climate Resilience teaches the emerging approaches to the design, construction, operation and maintenance of engineered green infrastructure. In addition, the course focuses on design assessment, lifecycle costing, comparison to traditional stormwater infrastructure, inspection practices, and performance verification.

COURSE STRUCTURE

8 COURSES

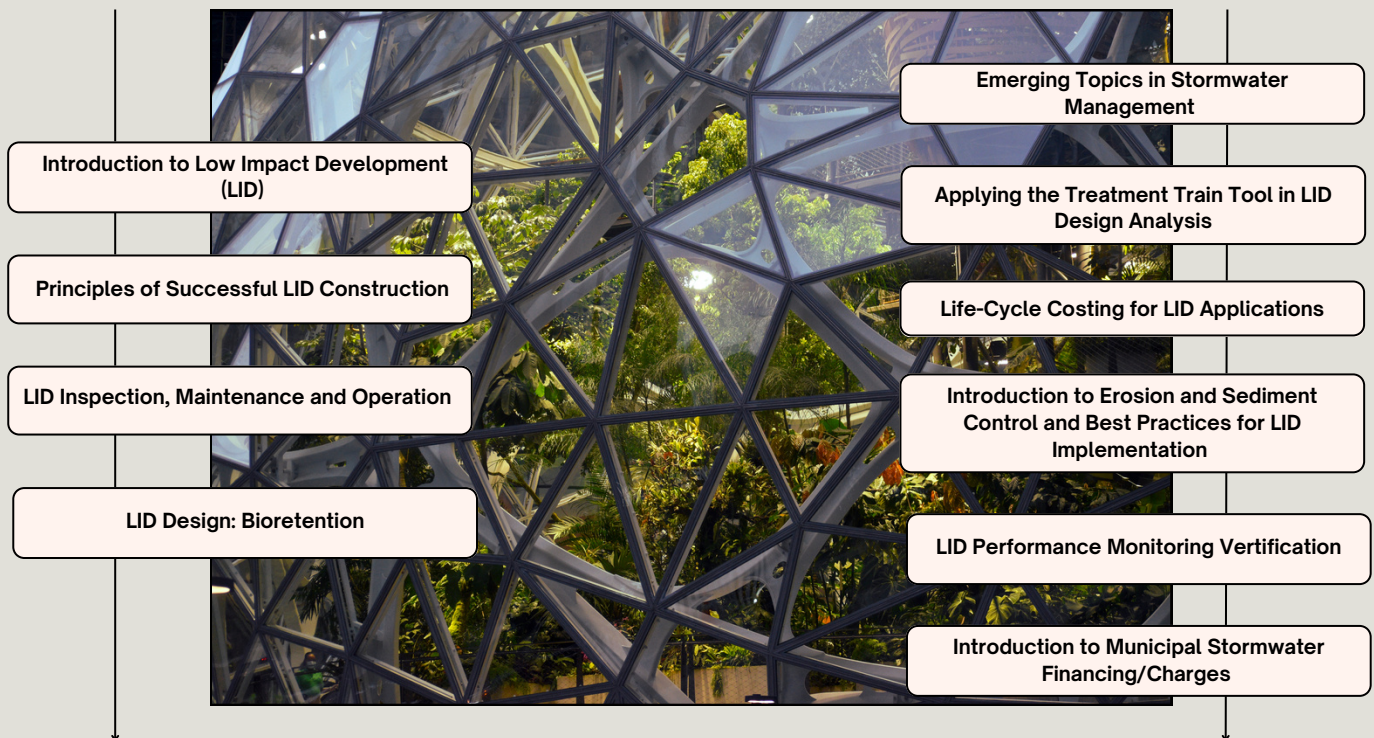
7.5 HRS PER COURSE

Learning Outcomes

- Understanding the need to focus on engineered green infrastructure and the role of low-impact development in a changing climate
- How to apply best practices and practical techniques in designing, constructing, and effectively managing engineered green infrastructure
- Utilize industry-leading tools to evaluate the environmental and lifecycle cost performance of engineered green infrastructure
- Best practices, case studies, and emerging technologies for effective implementation of sustainable, climate-resilient engineered green infrastructure

Required Courses

Elective Courses



Detailed Program Schedule on Next Page

COURSES

PART 1

(12:00 pm - 4:00 pm EST)

PART 2

(12:00 pm - 3:30 pm EST)

Introduction to Low Impact
Development (LID)
REQUIRED

Thursday, November 2, 2023

Friday, November 3, 2023

Principles of Successful LID
Construction
REQUIRED

Thursday, December 7, 2023

Friday, December 8, 2023

LID Inspection, Maintenance
and Operation
REQUIRED

Thursday, January 18, 2024

Friday, January 19, 2024

LID Design: Bioretention
REQUIRED

Thursday, February 1, 2024

Friday, February 2, 2024

Applying the Treatment Train
Tool in LID Design Analysis
ELECTIVE

Thursday, February 15, 2024

Friday, February 16, 2024

Life-Cycle Costing for LID
Applications
ELECTIVE

Thursday, February 29, 2024

Friday, March 1, 2024

LID Performance Monitoring
Verification
ELECTIVE

Thursday, March 21, 2024

Friday, March 22, 2024

Introduction to Erosion and
Sediment Control & Best
Practices for LID Implementation
ELECTIVE

Thursday, April 4, 2024

Friday, April 5, 2024

Emerging Topics in
Stormwater Management
ELECTIVE

Thursday, April 18, 2024

Friday, April 19, 2024

Introduction to Municipal
Stormwater Financing/Charges
ELECTIVE

Thursday, May 2, 2024

Friday, May 3, 2024

Interested in completing individual LID courses? Be sure to email us to learn more.

Admission Details

Participants must hold a degree or diploma from a recognized university or college; or a relevant certificate in infrastructure or sustainability from a recognized university; participants may be accepted if they are in the final year of their post-secondary studies or have equivalent professional experience.

Please Note: The full price for the course is \$1500 +HST.

SUBSIDIZED
TUITION FEES

\$750

CAD +HST



"As a final year Civil Engineering student who is passionate about water resources management, the Low Impact Development training courses have been incredibly valuable in getting industry-standard exposure to green infrastructure planning, design, construction, operation, and maintenance, topics not deeply discussed in my program. My main takeaways include the practical approach taken where we got ample opportunity to apply concepts learned through exercises; access and practice with various STEP resources, software, and spreadsheets; and a feeling of preparedness to work in the industry when I graduate. I highly recommend this program for new grads or anyone looking to get hands-on exposure to LID."

Rachael Rajendram | Construction Project Coordinator, Indwell

Program Leadership



KYLE VANDER LINDEN

Senior Advisor, Guidance, Policy & Strategic Partnerships at Credit Valley Conservation



STEVE AUGER

Coordinator, Stormwater Management at Lake Simcoe Region Conservation Authority



TIM VAN SETERS

Senior Manager at Sustainable Technologies at Toronto & Region Conservation



GREG ZILBERBRANT

Program Lead at W.Booth School of Engineering Practice and Technology McMaster University, Circular Economy & Climate Change Program & Executive Director at Beyond21 Academy

In partnership with



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