

## WHEN

November 23 2019 – 1:00PM to 4:30 PM

## WHERE

University of Waterloo - EV3 - Room 4412

## REGISTRATION

[Leadinggreen.com/Waterloo](http://Leadinggreen.com/Waterloo)



TO REGISTER VISIT  
[www.LeadingGreen.com](http://www.LeadingGreen.com)

## CONTACT THE INSTRUCTOR

Lorne Miotek  
BASc., LEED AP BD+C, O+M  
[info@leadinggreen.com](mailto:info@leadinggreen.com)  
416 824 2677  
585 764 5423

# LEED<sup>®</sup> GREEN ASSOCIATE TRAINING

LEED (Leadership in Energy and Environmental Design) is a sustainability scorecard for green buildings. The LEED Green Associate is the best professional designation to show employers and clients that you have certified knowledge in the field.

-Perfect for all levels of study/experience  
-10,000 Past participants  
-99% Passing rate when following our 3-step study process

**\$200**

For full time students

**\$300**

Non-students

(Comparable courses start at \$700)

## COURSE INCLUDES



400 Realistic practice exam questions  
Updated to LEED V4



Class recordings and on-demand assistance from our LEED AP+ Staff



Comprehensive study guide designed to prepare you for exam success



In-class instruction involving LEED overview and detailed exam preparation including tips for exam registration



# ABOUT THE INSTRUCTOR

Lorne Mlotek B.A.Sc., LEED AP BD+C, O+M

Lorne Mlotek studied Civil Engineering at the University of Toronto, specializing in Building Science and Integrated Design.

Over the past 7 years, he has contributed to the green building industry by working as a sustainability consultant with Smith and Anderson Footprint, as a developer with Provident Energy Management (a division of Tridel), and as a designer at Morrison Herhsfield. Lorne has acted as an engineering consultant on over 25 sustainable projects pursuing LEED, Energystar, and BOMA BEST certifications. Currently, Lorne owns and operates LeadingGreen Training and Consulting, a business he founded back in university.

At that time, the only LEED preparation courses available started at \$700, a high cost that he recognized to be an obstacle in encouraging the widespread adoption of LEED. Since then, Lorne has taught energy modelling, building science, and over 170 LEED training courses to over 8000 participants across North America. Following his studying method, participants have gone on to pass their GA or AP+ exams with no trouble. Lorne has also partnered with over 100 companies and post-secondary institutions across North America to teach sustainability topics to students and professionals. Lorne is committed to increasing education, which he believes will lead to greater recognition of LEED's financial merits, growth in green collar industries, and an overall increased market demand for green buildings. Lorne is currently working on a recruiting company specializing in sustainable opportunities.

## OFFICE ADDRESS:

**B740 Sandford Fleming Building, 10 King's College Road, Toronto ON M5S 3G4**

**E-mail: [info@leadinggreen.com](mailto:info@leadinggreen.com)**

	LeadingGreen	Others
Price (\$)	\$200 (students) - \$300	\$700+
Length (Hours)	5	8
# of Mock exams provided	4	2
Taught by LEED AP+ Instructors	✓	
Unique Online Realistic Mock Exams	✓	
Class Video Recordings Provided	✓	
Letter of Attestation for LEED Project Experience	✓	
Study Materials Provided	✓	
99% Exam Pass Rate	✓	

# LEED GA

## Topics Covered



### **Introduction to Sustainability in the 21st Century**

- The causes and effects of climate change due to global warming
- The distinction between energy production and consumption
- The role that the built environment plays as the largest consumer of energy and largest producer of greenhouse gases

### **Introduction to LEED (Leadership in Energy and Environmental Design)**

- How LEED is used to reduce the footprint of the built environment
- How LEED creates a more economical building and healthier environment for occupants
- The origins of LEED, and its current certification process and point system
- The tools and standards incorporated in LEED, which result in a holistic green building standard
- How to market yourself as a LEED professional

### **Location and Transportation (Impact Category #1)**

- Choosing a site that will minimize a building's impact on the environment due to automobile dependence and urban sprawl
- Integrate a building into existing infrastructure and public transportation systems

### **Sustainable Sites (Impact Category #2)**

- Maximizing open spaces that can be used by the occupants
- Reducing storm water runoff and reducing cooling loads by minimizing the Heat-Island effect
- Minimizing light pollution to reduce energy loss and off-site disturbances

### **Water Efficiency (Impact Category #3)**

- Reducing potable water consumption by installing low-flow fixtures and reusing water
- Reducing potable water used for irrigation and treating waste water on site
- Benefits and incentives of monitoring water consumption

### **Energy and Atmosphere (Impact Category #4)**

- Using building modeling software and on-going metering to estimate and record energy usage
- Reducing a building's energy loss
- Sourcing energy from on/off-site renewables
- The necessity of building commissioning and refrigerant management for LEED

### **Materials and Resources (Impact Category #5)**

- Reducing construction demolition waste
- Setting up recycling systems for occupants
- LEED's Building product disclosure and unique optimization approach for material selection
- Environmental Product Declarations and benefits of local materials

### **Indoor Environmental Quality (Impact Category #6)**

- Minimizing indoor air pollution to increase occupant comfort, health and productivity
- Awarding of points for optimal lighting, comfort, and thermal control
- Strategic placement of windows for optimal daylight and views to improve environmental quality

### **Innovation in Design and Regional Priority (Impact Category #7)**

- Sustainable strategies, which are out of the scope of LEED
- Exemplary performance points for exceeding credit requirements
- Points for fulfilling credits that are important to specific regions

### **Materials Overview, Exam registration and Exam-Writing Tips&Tricks**

- Self-studying for the exam, following an exact procedure to ensure a passing grade
- Registering for the exam through the USGBC, and choosing the best location
- The most effective strategy during the exam

# What is Sustainability?

“Meeting our NEEDS, and the NEEDS of future generations”

The Triple Bottom Line is the key to sustainable design and construction, ensuring that the wants and needs of the environment, economy and society are all satisfied.



# What is LEED?



## LEED

LEED stands for Leadership in Energy and Environmental Design and is a scorecard for green buildings. The more sustainable the building is, the higher the level of certification it can achieve.

The LEED rating systems are based on points, which can be earned by meeting specific credit requirements in 6 different categories.

Highlighting the 6 areas for improved environmental performance, LEED emphasizes a holistic approach to sustainable building.

- |                                 |                                 |
|---------------------------------|---------------------------------|
| 1. Sustainable Site Development | 4. Materials Selection          |
| 2. Water Efficiency             | 5. Indoor Environmental Quality |
| 3. Energy Efficiency            | 6. Innovation                   |



CERTIFIED  
40 - 49 POINTS



SILVER  
50 - 59 POINTS

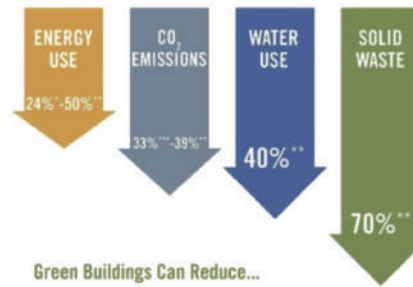


GOLD  
60 - 79 POINTS



PLATINUM  
80+ POINTS

# Why Choose LEED?



**Proven Performance** – LEED certified buildings save money over time through energy conservation, reduced water consumption and increased property value

**Environmental Responsibility** – LEED is synonymous with sustainability and is the premier way to demonstrate your willingness to make a difference for future generations

**Short-term Return** – Its low initial cost premium yields high returns on investments, which have faster lease-up rates and can free up potential financial incentives

# LEED and its Merits

## Market Demand

According to a World Green Buildings Study, 33% of individuals and tenants desired green buildings in 2012, and this percentage continues to rise every year.

## Operations and Maintenance Costs

Buildings are the largest consumers of energy. As utility prices rise, it is essential to consume less and save more. The LEED rating systems involve an integrative approach that encourages interaction between all stakeholders early on in the project to promote synergies. The integrative approach effectively ensures that all aspects of the Triple Bottom Line are met: the result is a cost-effective building optimized for environmental sustainability and quality of life for the occupants.

## Competitive Advantage

As environmental sustainability becomes increasingly popular, LEED is a highly sought-after designation that sets projects apart from the crowd. It is a strong marketing tool that represents your green efforts in one recognizable word. Those who do not build LEED will be left with a building that does not appreciate in value as fast.

## LEED Buildings yield:

Average ROI: 9.9% (New), 19.2% (Existing); Reduced Operation Costs: 13.6% (New); 8.5% (Existing) Increased Building Value: 10.9% (New); 6.8% (Existing) Higher Occupancy rates: 16% - 18% higher than non-rated; Robust Tenants: Green buildings retain their occupants at consistent rents through economic trials (IE. 2007-2009)



Boost productivity and performance



Enhance worker satisfaction



Reduce sick leave, stress levels and absenteeism



Are a powerful recruitment and retention tool