

Interested in getting involved in the Green Building Industry?

# LEED® GREEN ASSOCIATE TRAINING

When: April 23<sup>rd</sup> 2016 – 1:00PM to 5:00 PM

Where: UC Berkeley – Wheeler Hall – Room 210

Registration: <http://leadinggreen.ca/berkeley>

LEED (Leadership in Energy and Environmental Design) is a green-rating point system, a scorecard to certify sustainably designed and constructed buildings. The LEED Green Associate (GA) credential shows employers that you are environmentally conscious and knowledgeable.



**SERC**  
STUDENT ENVIRONMENTAL  
RESOURCE CENTER  
UNIVERSITY OF CALIFORNIA BERKELEY

**\$200 for full-time students**

The Student Environmental Resource Center is providing a limited number of partial funding for this course. Contact [kwash@berkeley.edu](mailto:kwash@berkeley.edu)

## Course Itinerary:

1. All necessary course materials distributed
2. In-depth overview of LEED including all topics covered on the exam
3. How to succeed on the actual LEED GA exam, what to expect and how to register

## Post Class\*:

1. Online Access to recordings and materials
2. Four Mock Exams (400 Questions)
3. Anytime assistance through LEEP AP+ staff
4. Study Guide helping you pass your first try!

\* through LeadingGREEN's On-Demand website service

## TO REGISTER VISIT:

[www.LeadngGreen.ca](http://www.LeadngGreen.ca)

PICK YOUR PROVINCE +  
Reserve your spot today!



Contact the instructor:  
**Lorne Mlotek,**  
BASc., LEED AP BD+C, O+M  
[info@LeadingGREEN.ca](mailto:info@LeadingGREEN.ca)  
585-764-5423

Price (\$)	\$200 (students) - \$300	\$700+
Length (Hours)	5	8
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		
100% Exam Pass Rate		

**About the Instructor:** Lorne Mlotek BASc., LEED AP BD+C

Lorne Mlotek is a graduate in Civil Engineering from the University of Toronto where he specialized in building science and integrated design. Over the past 7 years Lorne has gained experience in 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 with Morrison Hershfield as a designer. Lorne has acted as an engineering consultant on over 25 sustainable projects pursuing LEED, Energystar and BOMA BEST certification.

Currently Lorne owns and operates LeadingGreen Training and Consulting whose mission is to help students and professionals circumvent the financial barriers of sustainable education. Over the past four years Lorne has taught energy modeling, building science and over 170 LEED training courses to over 5000 people with great success, as everyone who has taken their LEED GA or AP+ exam has passed. Lorne has also partnered with over 100 post-secondary institutions and companies across North America to present about sustainable topics to their students. Lorne believes that increased education will lead to greater market demand for green buildings, the recognition of their financial merits and growth in green collar industries and is currently working on a recruiting company specializing in sustainable opportunities.

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**Introduction to sustainability in the 21<sup>st</sup> century**

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

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

- How LEED is used to reduce the foot print of our built environment
- How LEED contributes to a more economical building and healthier lifestyle for its occupants
- Who created LEED and what is the process to certify a building including the point system
- The tools and standards incorporated into LEED which result in a holistic green building standard
- How to market yourself as a LEED professional and understand LEED impact categories

**Location and Transportation**

- How to reduce your building's impact on the environment due to automobile dependence
- Incorporating your building with existing infrastructure and public transportation
- Where to build the project in order to reduce its environmental impact and halt urban sprawl
- How to select the correct project site to maximize LEED points and mitigate environmental impact

**Sustainable Sites**

- The benefits of open space on your project site and having occupants interact with said space
- Reduction of storm water runoff and curbing the heat island affect to reduce cooling loads
- How to reduce light pollution to minimize energy loss and off-site disturbances

**Water Efficiency**

- How to reduce potable water consumption by installing low flow fixtures and reusing water
- The benefits of properly monitoring your water consumption and possible incentives
- How to reduce potable water use for irrigation and treat waste water on site

**Energy and Atmosphere**

- Using building modeling software and on-going metering to estimate and record energy usage
- How to reduce energy losses from the building and how to source energy from on/off-site renewables
- The necessity of building commissioning and refrigerant management for LEED

**Materials and Resources**

- How to reduce construction demolition waste and allow for occupant recycling when occupied
- LEED's Building product disclosure and optimization unique approach for material selection
- The function of Environmental Product Declarations and benefits of local materials

**Indoor Environmental Quality**

- How to reduce indoor air pollution to increase occupant comfort, health and productivity
- How points are awarded for lighting and thermal control and comfort
- How to incorporate daylight and views to positively contribute to the indoor environmental quality

**Innovation in Design and Regional Priority**

- How LEED rewards sustainable strategies which are out of the scope of LEED
- How to receive exemplary performance points for exceeding existing credit requirements
- How LEED rewards points for satisfying credits of utmost importance to specific regions

**Exam registration, materials overview and Exam taking tricks**

- How to self-study for the exam and the exact procedure to ensure the highest passing rate
- How to register with the USGBC and find the best location to take the exam
- How to use the most effective strategy during the exam

# LEADING GREEN

## 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.



**Environment** – We have one Earth and must preserve it.  
**Economic** – The economy is the driver behind market change and green buildings have high financial returns  
**Society** – Sustainable buildings are healthier, more comfortable and well integrated into the community and contribute to a greater overall quality of life

## What is LEED?



LEED stands for Leadership in Energy and Environmental Design and is simply the definition of a green building. The more sustainable the building is the higher level of certification.

### LEED is....

**Legitimate** - Created by Professionals for Professionals  
**Committed** – Going LEED affects all phases of the project  
**Marketable** – Public recognizes LEED and demands it

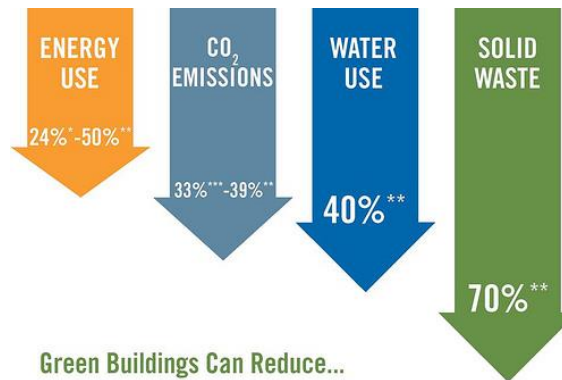


40-49      50-59      60-79      80+

LEED is a point based rating systems and depending on the number of points you achieve, you will be awarded. These points are earned through meeting credit requirements in LEED and there are 6 Categories in which to earn credits. LEED is a holistic building approach to sustainability by recognizing performance in five key areas of environmental performance:

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

## 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** – LEED means green as in sustainability, not for your pocket book. Its low initial cost premium yields high returns on investment which have faster lease-up rates and can free up potential financial incentives

## LEED and its Merits



### Market Demand

According to the World Green Buildings Study, market demand for green buildings continues to rise from 33% of individuals and tenants as well as 35% client demand in 2012.

### Competitive Advantage

Today, more than ever LEED differentiates you from conventional buildings. It is a strong marketing tool that encompasses your green efforts into a single recognizable word. Those who do not build LEED will be left with a building that does not appreciate as fast as others.



### Operations and Maintenance Costs

Buildings are the largest consumer of energy and electricity. While utility prices rise it is essential to consume less and save more. LEED utilizes an integrative approach which encourages interaction of all stakeholders early on in the project to find synergies between them. This results in an optimal design in the most cost-effective manner which is the benchmark of sustainable building design.

### 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)