



LEED and what it means to GO

At Metrolinx, Sustainability is a core part of our business. LEED (Leadership in Energy and Environmental Design) NC 2009 is a green building rating system by which major rehab and new construction projects can achieve points towards Certified, Silver, Gold or Platinum certification.

All GO Station and Maintenance Facilities are to achieve LEED NC 2009 Gold certification. In addition, mandatory credits have been established for each building type to ensure that credits that are important to GO Transit's goals of energy efficiency and reduced operating and maintenance costs are targeted, integrated into the design early and achieved.

Designers are to incorporate LEED Gold and the GO Transit Mandatory credits into each project's scope of work.

Guidance on How To Use the GO LEED Mandatory Credit Checklist

LEED has five key areas under which credits are obtained. These are:

- Sustainable Sites;
- Water Efficiency;
- Energy & Atmosphere;
- Materials & Resources and
- Indoor Environmental Quality.

Each area has Prerequisites that the project must achieve in order to consider going for LEED certification, these are non-negotiable. There is also an Innovation & Design section where innovative systems not accounted for elsewhere, exemplary performance and operational procedures can be considered for a credit. Each credit is worth anywhere from one to nineteen points, the number of points obtained determines the LEED rating achieved.

In order to achieve LEED Gold certification, anywhere between sixty (60) and seventy nine (79) points must be granted by the Canadian Green Building Council (CaGBC). It is recommended that sixty five points are targeted on each project pursuing Gold certification since the CaGBC is the final arbiter on which points are granted, so some points may be lost.

The GO LEED credit checklist that follow indicate the Prerequisites and GO Transit Mandatory credits which must be targeted and achieved. There are additional columns indicating optional points for consideration from which the shortfall can be made, credits that are not to be pursued are also identified in the checklist.



CI-0105

TAB 1: GUIDING PRINCIPLES
Sustainability

LEED Mandatory Credits for Station Buildings

Mandatory	Optional	Not to be Pursued	Available Points	Project Totals (pre-certification estimates)				110
47	57	8	110	Points				
				Certified 40-49 points	Silver 50-59 points	Gold 60-79 points	Platinum 80 points and above	

M	O	N	A	Credit No.	Credit Name	Comments	
7				SS SUSTAINABLE SITES			
PREREQUISITE				SSp1	Construction Activity Pollution Prevention		
	1		1	SSc1	Site Selection		
	5		5	SSc2	Development Density & Community Connectivity		
	1		1	SSc3	Brownfield Redevelopment		
6			6	SSc4.1	Alternative Transportation, Public Transportation Access		
		1	1	SSc4.2	Alternative Transportation, Bicycle Storage & Changing Rooms		
	3		3	SSc4.3	Alternative Transportation, Low-Emitting & Fuel Efficient Vehicles		
	2		2	SSc4.4	Alternative Transportation Parking Capacity		
	1		1	SSc5.1	Site Development, Protect or Restore Habitat		
		1	1	SSc5.2	Site Development, Maximize Open Space		
	1		1	SSc6.1	Stormwater Design, Quantity Control		
	1		1	SSc6.2	Stormwater Design, Quality Control		
	1		1	SSc7.1	Heat Island Effect, Non-Roof		
1			1	SSc7.2	Heat Island Effect, Roof		
	1		1	SSc8	Light Pollution Reduction		

M	O	N	A	Credit No.	Credit Name	Comments	
7				WE WATER EFFICIENCY			
PREREQUISITE				WEp1	Water Use Reduction		
4			4	WEc1	Water Efficient Landscaping		
	2		2	WEc2	Innovative Wastewater Technologies		
3	1		4	WEc3	Water Use Reduction		



CI-0105

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14	17	4	35	EA	ENERGY & ATMOSPHERE	
M	O	N	A	Credit No.	Credit Name	Comments
PREREQUISITE				EAp1	Fundamental Commissioning of Building Energy Systems	
PREREQUISITE				EAp2	Minimum Energy Performance	
PREREQUISITE				EAp3	Fundamental Refrigerant Management	
7	12		19	EAc1	Optimized Energy Performance	
	3	4	7	EAc2	On-Site Renewable Energy	
2			2	EAc3	Enhanced Commissioning	
2			2	EAc4	Enhanced Refrigerant Management	
3			3	EAc5	Measurement & Verification	
	2		2	EAc6	Green Power	

7	6	1	14	MR	MATERIALS & RESOURCES	
M	O	N	A	Credit No.	Credit Name	Comments
PREREQUISITE				MRp1	Storage & Collection of Recyclables	
	3		3	MRC1.1	Building Reuse: Maintain Existing Walls, Floors, Roof	
	1		1	MRC1.2	Building Reuse: Maintain Interior Non-Structural Elements	
2			2	MRC2	Construction Waste Management	
	2		2	MRC3	Materials Reuse	
2			2	MRC4	Recycled Content	
2			2	MRC5	Regional Materials	
		1	1	MRC6	Rapidly Renewable Materials	
1			1	MRC7	Certified Wood	

8	6	1	15	EQ	INDOOR ENVIRONMENTAL QUALITY	
M	O	N	A	Credit No.	Credit Name	Comments
PREREQUISITE				EQp1	Minimum Indoor Air Quality Performance	
PREREQUISITE				EQp2	Environmental Tobacco Smoke Control	
	1		1	EQc1	Outdoor Air Delivery Monitoring	
		1	1	EQc2	Increased Ventilation	
1			1	EQc3.1	Construction IAQ Management Plan, During Construction	
	1		1	EQc3.2	Construction IAQ Management Plan, Before Occupancy	
1			1	EQc4.1	Low Emitting Materials, Adhesives & Sealants	
1			1	EQc4.2	Low Emitting Materials, Paints and Coatings	
1			1	EQc4.3	Low Emitting Materials, Flooring Systems	



CI-0105

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1			1	EQc4.4	Low Emitting Materials, Composite Wood & Laminate Adhesives	
	1		1	EQc5	Indoor Chemical & Pollutant Source Control	
1			1	EQc6.1	Controllability of System: Lighting	
	1		1	EQc6.2	Controllability of System: Thermal Comfort	
1			1	EQc7.1	Thermal Comfort, Design	
	1		1	EQc7.2	Thermal Comfort, Verification	
1			1	EQc8.1	Daylight & Views, Daylight	
	1		1	EQc8.2	Daylight & Views, Views	

4	4	0	6	ID	INNOVATION & DESIGN PROCESS	
M	O	N	A	Credit No.	Credit Name	Comments
1			1	IDc1.1	Innovation in Design: Green Housekeeping	
1			1	IDc1.2	Innovation in Design: Solid Waste Management Policy	
1			1	IDc1.3	Innovation in Design: Green Education	
	1		1	IDc1.4	Innovation in Design: Low Mercury Lamps	
	1		1	IDc1.5	Innovation in Design: Exemplary Performance SSc4.1 or other	
	1				Innovation in Design: Process Water Reuse, vehicle wash (if applicable)	
	1				Innovation in Design: TBD	
1			1	IDc2	LEED AP	

0	4	0	4	RP	REGIONAL PRIORITY	
M	O	N	A	Credit No.	Credit Name	Comments
	1		1	RP1	Durable Building	
	1		1	RP2.1	Regional Priority Credit 1	
	1		1	RP2.2	Regional Priority Credit 2	
	1		1	RP2.3	Regional Priority Credit 3	



CI-0105

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Mandatory	Optional	Not to be Pursued	Available Points	Project Totals (pre-certification estimates)			110
47	56	8	110	Points			
				Certified 40-49 points	Silver 50-59 points	Gold 60-79 points	Platinum 80 points and above
8	17	1	26	SS	SUSTAINABLE SITES		
M	O	N	A	Credit No.	Credit Name	Comments	
PREREQUISITE				SSp1	Construction Activity Pollution Prevention		
	1		1	SSc1	Site Selection		
	5		5	SSc2	Development Density & Community Connectivity		
	1		1	SSc3	Brownfield Redevelopment		
3	3		6	SSc4.1	Alternative Transportation, Public Transportation Access		
1			1	SSc4.2	Alternative Transportation, Bicycle Storage & Changing Rooms		
3			3	SSc4.3	Alternative Transportation, Low-Emitting & Fuel Efficient Vehicles		
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	1		1	SSc7.1	Heat Island Effect, Non-Roof		
1			1	SSc7.2	Heat Island Effect, Roof		
	1		1	SSc8	Light Pollution Reduction		
7	3	0	10	WE	WATER EFFICIENCY		
M	O	N	A	Credit No.	Credit Name	Comments	
PREREQUISITE				WEp1	Water Use Reduction		
4			4	WEc1	Water Efficient Landscaping		
	2		2	WEc2	Innovative Wastewater Technologies		
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CI-0105

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7	6	1	14	MR	MATERIALS & RESOURCES		
M	O	N	A	Credit No.	Credit Name	Comments	
PREREQUISITE				MRp1	Storage & Collection of Recyclables		
	3		3	MRC1.1	Building Reuse: Maintain Existing Walls, Floors, Roof		
	1		1	MRC1.2	Building Reuse: Maintain Interior Non-Structural Elements		
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	2		2	MRC3	Materials Reuse		
2			2	MRC4	Recycled Content		
2			2	MRC5	Regional Materials		
		1	1	MRC6	Rapidly Renewable Materials		
1			1	MRC7	Certified Wood		

7	6	2	15	EQ	INDOOR ENVIRONMENTAL QUALITY		
M	O	N	A	Credit No.	Credit Name	Comments	
PREREQUISITE				EQp1	Minimum Indoor Air Quality Performance		
PREREQUISITE				EQp2	Environmental Tobacco Smoke Control		
		1	1	EQc1	Outdoor Air Delivery Monitoring		
		1	1	EQc2	Increased Ventilation		
1			1	EQc3.1	Construction IAQ Management Plan, During Construction		
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1			1	EQc4.1	Low Emitting Materials, Adhesives & Sealants		
1			1	EQc4.2	Low Emitting Materials, Paints and Coatings		
1			1	EQc4.3	Low Emitting Materials, Flooring Systems		



CI-0105

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1			1	EQc6.1	Controllability of System: Lighting	
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M	O	N	A	Credit No.	Credit Name	Comments
1			1	IDc1.1	Innovation in Design: Green Housekeeping	
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	1				Innovation in Design: TBD	
1			1	IDc2	LEED AP	

0	4	0	4	RP	REGIONAL PRIORITY	
M	O	N	A	Credit No.	Credit Name	Comments
	1		1	RP1	Durable Building	
	1		1	RP2.1	Regional Priority Credit 1	
	1		1	RP2.2	Regional Priority Credit 2	
	1		1	RP2.3	Regional Priority Credit 3	