

LEED BD&C Building Design & Construction Version 3.0 (2009) Certification & Accreditation

Class 1:

Course Overview, Exec. Order,
USGBC & LEED



May 4, 2009

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Assessment Survey

1. How many have worked on the LEED certification of a project?
2. How many are currently working on projects required to be LEED certified?
3. Any LEED accredited professionals? (LEED AP)
4. Any taken LEED training or workshop?

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Today's Agenda

- Class overview & objectives
- LEED assessment discussion & warm-up
- Green Building Executive Order & Green Building Action Plan – Overview
- AB 32 & CA Green Building Code Overview
- Introduction to the U.S. Green Building Council & LEED Rating Systems
- LEED BD&C Rating System

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Class Schedule

1. Mon. May 4th, 10:00 AM – 12 PM & 1:00-3:00 PM
2. Mon. May 11th, 9:00 AM – 12 PM & 1:00-3:00 PM
3. Mon. May 17th, 10:00 AM – 12 PM & 1:00-3:00 PM
 - All classes in Ziggurat auditorium
 - Lunch break 12-1 PM (on your own)
 - All sessions webcast live & archived at www.dgs.ca.gov/LEEDtraining
4. LEED building tours during week of May 26th-29th
 - Numerous locations & times to be announced
5. LEED BD&C Mock exam Monday, June 1st
 - 9:00 AM – noon in Ziggurat auditorium

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Introductions

Instructor

- Dan Burgoyne
Sustainability Manager
DGS Green Team
daniel.burgoyne@dgs.ca.gov
(916) 376-5010 – office



Class Participants

- State agencies, Higher Education
- Professional disciplines
- What do you hope to gain from this class?

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Class LEED Building Tours

Tours of LEED certified buildings during 8th week

- May 26th-29th, Specific dates & details TBD
- Sacramento – potential tours
 - Department of Education – East End Block 225 (LEED-NC v2.0 Gold, LEED-EB Platinum)
 - Department of Public Health – East End Blocks 171-174 (LEED-NC v2.1 Certified, LEED-EB Gold)
 - CalPers (LEED-NC v2.1 Gold)
 - Department of Rehabilitation (LEED-NC v2.1 Silver)
 - State Offices @ Butterfield Way (LEED-NC v2.1 Silver)
- Potential tours in other cities (depending on Interest)
 - Bay Area
 - Los Angeles
 - San Diego

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Course Overview

Review of Syllabus

Objectives

Methods and Approaches

- PowerPoint presentations
- Supplementary materials
- Weekly quizzes
- Mock LEED-AP Exam, grading & follow-up discussion
 - In Ziggurat auditorium June 1st, 9:00 AM–noon

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Recommended References

LEED Building Design & Construction (BD&C) Reference Guide v3.0 (2009)

- Hard Copy \$150 ea. for USGBC members (\$185 nm)
 - Includes 1 month access to non-printable .pdf version that can be downloaded & saved
- E-Copy \$140 ea. For USGBC members (\$175 nm)
 - Includes 1 month access to .pdf version that can be downloaded, saved and printed (and shared)
- Order LEED BD&C Reference Guide(s) at
- www.usgbc.org/DisplayPage.aspx?CMSPageID=1970#2

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California's Motivations for Building Green

Lower Operating Costs

- Reduced energy use
- Conserve water, lower maintenance

Customer / Occupant Satisfaction

- Improved comfort and indoor air quality

Good for the Environment

- Reduced greenhouse gas emissions
- Reduced environmental impact
- Reduce Waste



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Additional LEED 2009 References

LEED Green Building Rating System References

www.usgbc.org/DisplayPage.aspx?CMSPageID=1971

- Checklists
- Summaries of Rating Systems

Building Design & Construction

- **LEED-NC** for New Construction and Major Renovations
- **LEED-CS** for Core & Shell Development
- **LEED for Schools** for New Const. and Major Renov.

Operation & Maintenance

- Formerly LEED-EBOM for Existing Buildings: Operation & Maintenance

Interior Design & Construction

- Formerly LEED-CI for Commercial Interiors

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One More Motivation...



Executive Order S-20-04

Signed December 14, 2004



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California's AB 32 Global Warming Solutions Act of 2006

- California to reduce its greenhouse gas emissions to 1990 levels by 2020
- Scoping Plan adopted Jan. 2009
 - Zero Net Energy (ZNE) Homes by 2020
 - ZNE commercial bldgs by 2030
 - State of CA buildings ZNE by 2025
 - LEED-NC Gold certification for State bldgs.

www.arb.ca.gov/cc/scopingplan/document/psp.pdf



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Energy and Resource Efficiency

Reduce energy use by 20% by 2015

Retrofit, build and operate the most energy and resource efficient public buildings



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2008 California Green Building Standards Code

- CA Code of Regulations, Title 24, Part 11
- Takes effect August 1, 2009
- Mostly voluntary measures, some mandatory
- 2010 Code will include numerous mandatory measures
 - Will take effect in January 2011

www.documents.dgs.ca.gov/bsc/prpsd_stds/2007/2007_cqbsc_9-23-08.pdf

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CA Requirements: LEED

Design, construct and operate all State facilities as "LEED Silver" or higher

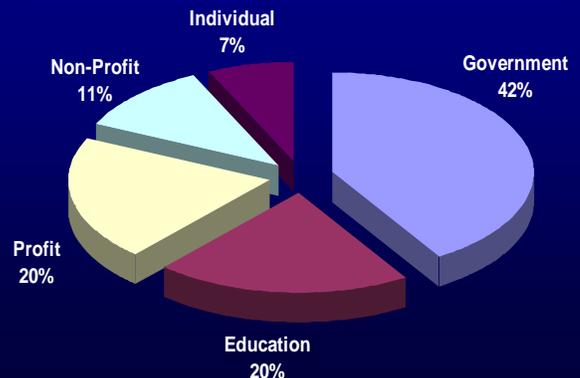
- New & renovated buildings >10,000 sq. ft.
- Existing buildings >50,000 sq. ft.

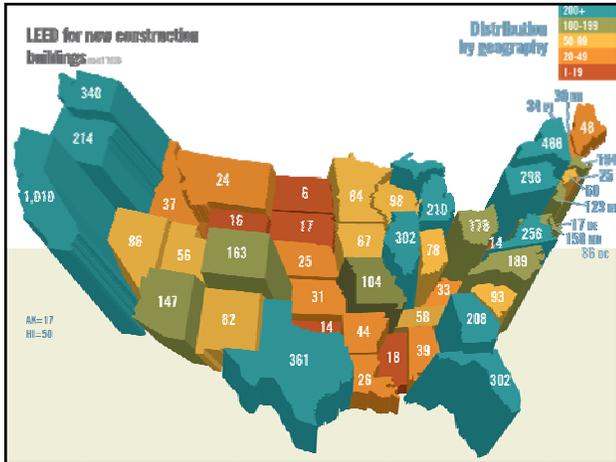
"Building projects less than 10,000 sq. ft. shall use the same design standard, but certification is not required."

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California LEED Building Owners





California Cities w/ LEED Adoptions

Alameda County	Palo Alto	Santa Clara
Albany	Pasadena	Santa Clarita
Anaheim	Pleasanton	Santa Cruz
Burbank	Sacramento	Santa Monica
Costa Mesa	San Bernadino	Santa Rosa
Irvine	San Diego	Stockton
Long Beach	San Francisco	Temecula
Los Altos	San Jose	Ventura
Los Angeles	San Mateo	West Hollywood
Monterey	San Rafael	
Oakland		

USGBC Gov't Policy Database:
www.usgbc.org/PublicPolicy/SearchPublicPolicies.aspx?PageID=1776



State of California's LEED-NC Buildings

- 14 buildings already LEED-NC certified
- 221 current buildings pursuing LEED certif.

81 building projects (> 6.1 M sq. ft.)

CalSTRS Headquarters
West Sacramento

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CalPERS Expansion, Sacramento - LEED-NC Gold (Aug 2006)



State Offices @ Butterfield Way, Sacramento - LEED-NC Silver (Feb 2008)



DMV Field Office, San Ysidro - LEED-NC Gold (Feb 2007)



Hertzberg-Davis Forensic Science Center, Los Angeles
LEED-NC Silver (September 2008)



Dept. of Rehab., Sacramento - LEED-NC Silver (Nov 2007)



DMV Field Office, Riverside
LEED-NC Silver (December 2008)



CA Requirements: LEED-EB

- Existing State Buildings >50,000 sq. ft.
- Status - 6 Buildings Certified
 - 59 buildings pursuing certif. in 2008 (13.1 M sq. ft.)
 - >200 buildings next 7 years



Dept. of Education
LEED-EB Platinum
(June 2006)

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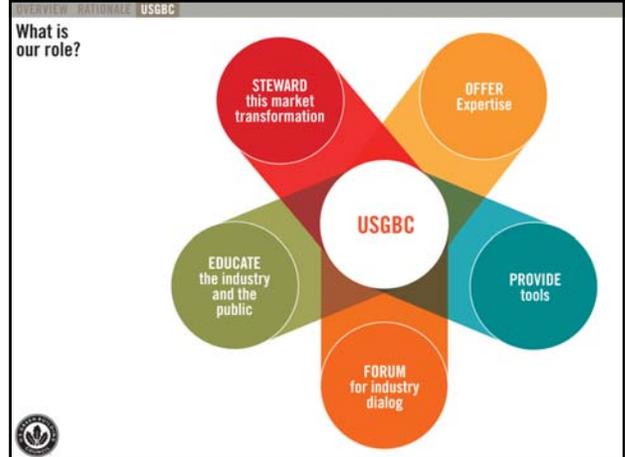
Dept. Public Health – 4 bldgs.
LEED-EB Gold (Feb 2008)

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Cal EPA Headquarters
LEED-EB Platinum
(November 2003)

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State of California Online Resources

Green Building Database

www.greenbuildings.dgs.ca.gov

- Interactive Map
- Spreadsheet



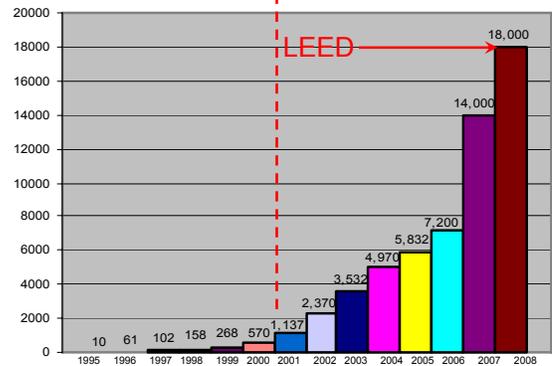
Green California Website www.green.ca.gov

- Commissioning Toolkit www.green.ca.gov/CxToolKit
- Green Building Executive Order & Green Building Action Plan
- LCCA Model
- Many other programs

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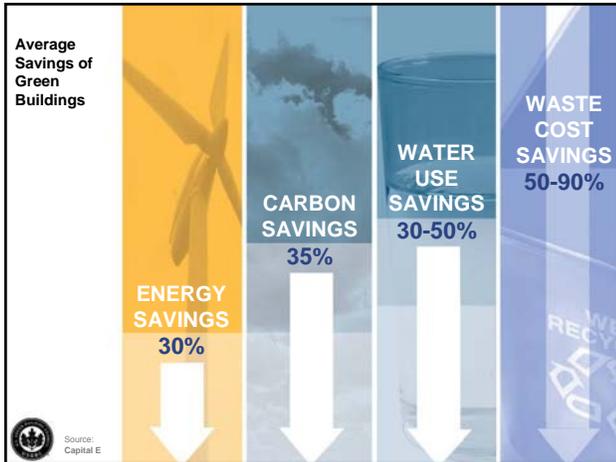
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USGBC Membership Companies



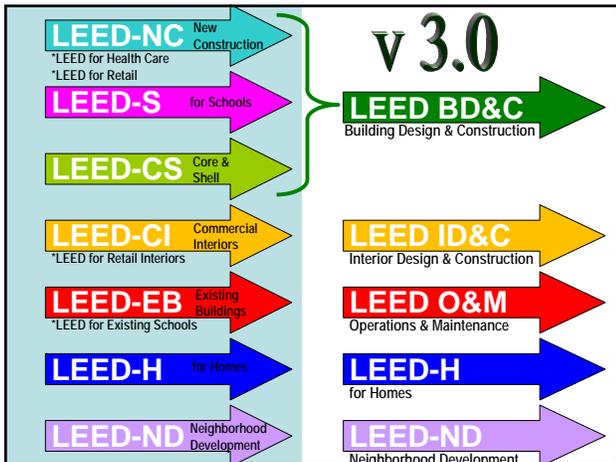
U.S. Building Impacts:





Levels of LEED Ratings

Green Buildings worldwide are certified with a voluntary, consensus-based rating system. USGBC has four levels of LEED.



California Study:
“The Cost and Financial Benefits of Green Buildings”

- 2004 Report by California’s Sustainable Building Task Force
- Reviewed 33 bldgs built over previous 10 yrs
- ~2% investment yielded 20% return
 - \$100K investment in \$5 M project yields \$1M return
- www.usgbc.org/ShowFile.aspx?DocumentID=1992

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Rating System	Reference Guide
LEED for New Construction	GREEN BUILDING DESIGN & CONSTRUCTION 2009 Edition
LEED for Core & Shell	
LEED for Schools	
LEED for Healthcare*	
LEED for Retail*	
LEED for Commercial Interiors	GREEN INTERIOR DESIGN & CONSTRUCTION 2009 Edition
LEED for Retail Interiors*	GREEN BUILDING OPERATIONS & MAINTENANCE 2009 Edition
LEED for Existing Buildings	
LEED for Existing Schools*	



Results of the California Study:
Average
Bottom Line
Savings



There is no “S” in “LEED”

- Only buildings can become “LEED certified”
- Only people can become “LEED accredited”
- No products nor companies can ever become “LEED certified”
- Organizations can become USGBC members of national USGBC organization
 - \$1,000 annual membership for State agencies
- Individuals can become members of USGBC chapters
 - \$50 for NCC if organization is national member
 - See www.usgbc-ncc.org for events

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When to Use LEED BD&C

New Construction or Major Renovations
Commercial Buildings, Schools, Core & Shell

- Offices
- Retail & Service
- Institutional (libraries, schools, museums, etc.)
- Hotels
- Residential (typically 4 or more stories)

Other

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LEED-NC / BD&C

Leadership in Energy & Environmental Design

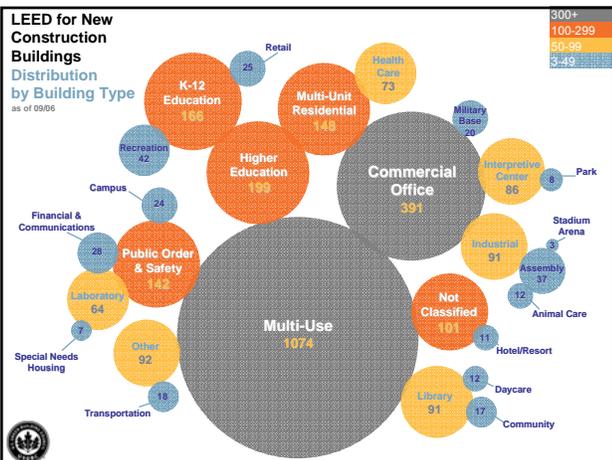
- LEED-NC Version 2.0 published 2001
- LEED-NC Version 2.1 published 2002
- LEED-NC Version 2.2 published 2005
- LEED BD&C Version 3.0 published 2009
 - April 27, 2009 – BD&C Launched
 - June 26, 2009 – End of 60-day overlap period (new projects can register under LEED NC v2.2 or LEED BD&C v3.0 (2009))
 - December 31, 2009 – Last day free migration period (currently registered projects can transition to v3.0 2009 without fee)

Future of LEED

- Updates likely every 3 years (2012 next)

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LEED-NC/BD&C Comparison

	NC v2.2		BD&C (NC v2009)	
	Prereq.	Points	Prereq.	Points
Sustainable Sites	1	14	1	26
Water Efficiency		5	1	10
Energy & Atmosphere	3	17	3	35
		(incl. 2 req'd pts.)		
Materials & Resources	1	13	1	14
Indoor Environ. Quality	2	15	2	15
Innovation		5		6
Regional Points				4
Total Available Points	7	69	8	110
	Prereq. Pts.		Prereq. Pts.	

LEED BD&C Rating System	NC		Schools		CS	
	Pre.	Pts.	Pre.	Pts.	Pre.	Pts.
Sustainable Sites	1	26	2	24	1	28
Water Efficiency	1	10	1	10	1	10
Energy & Atmosphere	3	35	3	33	3	37
Materials & Resources	1	14	1	13	1	13
Indoor Environ. Quality	2	15	3	20	3	20
Innovation		6		6		6
Regional Points		4		4		4
Total Available Points	8	110	8	110	8	110
	Pre. Pts.		Pre. Pts.		Pre. Pts.	
	0					

Water Efficiency		NC	Schools	CS
		10 Pts.	10 Pts.	10 Pts.
Prereq 1	Water Use Reduction, 20% Reduction	Req'd	Req'd	Req'd
Credit 1.1	Water Efficient Landscaping, Reduce by 50%	2	2	2
Credit 1.2	Water Efficient Landscaping, No Potable Use or No Irrigation*	2	2	2
Credit 2	Innovative Wastewater Technologies	2	2	2
Credit 3.1	Water Use Reduction, 30%	2	2	2
Credit 3.2	Water Use Reduction, 35%* (points cumulate)	1	1	1
Credit 3.3	Water Use Reduction, 40%* (points cumulate)	1	1	1
Credit 4	Process Water Use Reduction, 20%	NA	1	NA



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LEED BD&C - vs.- LEED-NC v2.2

Point System with 4 levels of certification:

	NC v2.2	BD&C v2009
1. LEED Certified	26-32 Points	40-49 Points
2. LEED Silver	33-38 Points	50-59 Points
3. LEED Gold	39-51 Points	60-79 Points
4. LEED Platinum	52-69 Points	80-110 Points



www.usgbc.org
www.gbci.org

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Energy & Atmosphere		NC	Schools	CS
		35 Pts.	33 Pts.	37 Pts.
Prereq 1	Fundamental Commissioning of the Bldg. Energy Systems	Req'd	Req'd	Req'd
Prereq 2	Min. Energy Performance: 10% New or 5% Exist. Bldg. Ren.	Req'd	Req'd	Req'd
Prereq 3	Fundamental Refrigerant Management	Req'd	Req'd	Req'd
Credit 1	Optimize Energy Perf. 12-48% New Or 8-44% Exist. Renov.	1 to 19	1 to 19	3 to 21
Credit 2	On-Site Renewable Energy 1-13% Renewable Energy	1 to 7	1 to 7	4
Credit 3	Enhanced Commissioning	2	2	2
Credit 4	Enhanced Refrigerant Management	2	1	2
Credit 5	Measurement & Verification	3	2	NA
Credit 5.1	Measurement & Verification, Base Building	NA	NA	3
Credit 5.2	Measurement & Verification, Tenant Submetering	NA	NA	3
Credit 6	Green Power	2	2	2



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Sustainable Sites		NC	Schools	CS
		26 Pts.	24 Pts.	28 Pts.
Prereq 1	Construction Activity Pollution Prevention	Req'd	Req'd	Req'd
Prereq 2	Environmental Site Assessment	NA	Req'd	NA
Credit 1	Site Selection	1	1	1
Credit 2	Development Density & Community Connectivity	5	4	5
Credit 3	Brownfield Redevelopment	1	1	1
Credit 4.1	Alternative Transportation, Public Transportation Access	6	4	6
Credit 4.2	Alt. Transportation, Bicycle Storage & Changing Rooms	1	1	2
Credit 4.3	Alt. Transportation, Low-Emitting & Fuel-Efficient Vehicles	3	2	3
Credit 4.4	Alternative Transportation, Parking Capacity	2	2	2
Credit 5.1	Site Development, Protect or Restore Habitat	1	1	1
Credit 5.2	Site Development, Maximize Open Space	1	1	1
Credit 6.1	Stormwater Design, Quantity Control	1	1	1
Credit 6.2	Stormwater Design, Quality Control	1	1	1
Credit 7.1	Heat Island Effect, Non-Roof	1	1	1
Credit 7.2	Heat Island Effect, Roof	1	1	1
Credit 8	Light Pollution Reduction	1	1	1
Credit 9	Tenant Design & Construction Guidelines	NA	NA	1
Credit 9	Site Masterplan	NA	1	NA
Credit 10	Joint Use of Facilities	NA	1	NA

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Materials & Resources		NC	Schools	CS
		14 Pts.	13 Pts.	13 Pts.
Prereq 1	Storage & Collection of Recyclables	Req'd	Req'd	Req'd
Credit 1.1	Building Reuse, Maintain % of Existing Walls, Floors & Roof	1 to 3	1 to 2	1 to 5
	Bldg. Reuse, Maintain % of Exist. Walls, Floors & Roof	1 - 55%	1 - 75%	1 - 25%
	Bldg. Reuse, Maintain % of Exist. Walls, Floors & Roof	1 - 75%	1 - 95%	1 - 33%
	Bldg. Reuse, Maintain % of Exist. Walls, Floors & Roof	1 - 95%	NA	1 - 42%
	Bldg. Reuse, Maintain % of Exist. Walls, Floors & Roof	NA	NA	1 - 50%
	Bldg. Reuse, Maintain % of Exist. Walls, Floors & Roof	NA	NA	1 - 75%
Credit 1.2	Bldg. Reuse, Maintain 50% of Int. Non-Structural Elements	1	1	NA
Credit 2.1	Construction Waste Management, Divert 50% from Disposal	1	1	1
Credit 2.2	Construction Waste Management, Divert 75% from Disposal	1	1	1
Credit 3.1	Materials Reuse, 5%	1	1	1
Credit 3.2	Materials Reuse, 10%	1	1	NA
Credit 4.1	Recycled Content, 10% (post-consumer + ½ pre-consumer)	1	1	1
Credit 4.2	Recycled Content, 20% (post-consumer + ½ pre-consumer)	1	1	1
Credit 5.1	Regional Materials, 10% Extracted, Processed & Manuf.d.	1	1	1
Credit 5.2	Regional Materials, 20% Extracted, Processed & Manuf.d.	1	1	1
Credit 6	Rapidly Renewable Materials, 2.5%	1	1	NA
Credit 6	Certified Wood, 50% (diff. credit number for Core & Shell)	NA	NA	1
Credit 7	Certified Wood, 50%	1	1	NA

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Indoor Environ. Quality		NC	Schools	CS
		15 Pts.	20 Pts.	12 Pts.
Prereq 1	Minimum IAQ Performance	Req'd	Req'd	Req'd
Prereq 2	Environmental Tobacco Smoke (ETS) Control	Req'd	Req'd	Req'd
Prereq 3	Minimum Acoustical Performance	NA	Req'd	NA
Credit 1	Outdoor Air Delivery Monitoring	1	1	1
Credit 2	Increased Ventilation	1	1	1
Credit 3.1	Construction IAQ Management Plan, During Construction	1	1	1
Credit 3.2	Construction IAQ Management Plan, Before Occupancy	1	1	NA
Credit 4	Low-Emitting Materials	1 to 4	4 max*	1 to 4
	Credit 4.1: Low-Emit. Mat'ls, Adhesives & Sealants	1	1*	1
	Credit 4.2: Low-Emit. Mat'ls, Paints & Coatings	1	1*	1
	Credit 4.3: Low-Emit. Mat'ls, Flooring Systems	1	1*	1
	Credit 4.4: Low-Emit. Mat'ls, Comp. Wood & Ag. Products	1	1*	1
	Credit 4.5: Low-Emit. Mat'ls, Furniture and Furnishings	NA	1*	NA
	Credit 4.6: Low-Emit. Mat'ls., Ceiling and Wall Systems	NA	1*	NA
Credit 5	Indoor Chemical & Pollutant Source Control	1	1	1
Credit 6.1	Controllability of Systems, Lighting	1	1	NA
Credit 6.2	Controllability of Systems, Thermal Comfort	1	1	1-C6
Credit 7.1	Thermal Comfort, Design	1	1	1-C7
Credit 7.2	Thermal Comfort, Verification	1	1	NA
Credit 8.1	Daylight & Views, Daylight 75% of Spaces	1	1 to 3	1
Credit 8.2	Daylight & Views, Views for 90% of Spaces	1	1	1
Credit 9	Enhanced Acoustical Performance	NA	1	NA
Credit 10	Mold Prevention	NA	1	NA

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Eight Steps to LEED Certification

1. LEED On-line Registration www.gbci.org
2. Determine LEED credits sought
 - LEED charrette or preliminary LEED analysis
3. Set-up LEED-Online Project Teams & Assign Roles
4. LEED-Online Documentation
5. LEED Design Submittal
6. LEED Construction Submittal
7. Appeal Process – If any
8. Certification Awarded

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Innovation in Design		NC	Schools	CS
		6 Pts.	6 Pts.	6 Pts.
Credit 1.1	Innovation in Design: Provide Specific Title	1	1	1
Credit 1.2	Innovation in Design: Provide Specific Title	1	1	1
Credit 1.3	Innovation in Design: Provide Specific Title	1	1	1
Credit 1.4	Innovation in Design: Provide Specific Title	1	1	1
Credit 1.5	Innovation in Design: Provide Specific Title	1	NA	1
Credit 2	LEED® Accredited Professional	1	1	1
Credit 3	The School as a Teaching Tool	NA	1	NA



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LEED Certification Fees

	For DGS related projects contact: daniel.burgoyne@dgs.ca.gov	
	USGBC Members	USGBC Non-Members
LEED Registration	\$450 Flat Fee	\$600 Flat Fee
LEED Design Submittal	\$0.025/s.f.	\$0.03/s.f.
	<50,000 or 100,000 s.f. \$1,250 min.	\$1,500 min.
	>500,000 s.f. \$12,500 max.	\$15,000 max.
LEED Construction Submittal	\$0.01/s.f.	\$0.015/s.f.
	<50,000 or 100,000 s.f. \$500 min.	\$750 min.
	>500,000 s.f. \$5,000 max.	\$7,500 max.
Total Fees	<50,000 or 100,000 s.f. \$2,200 min.	\$2,200 min.
	>500,000 s.f. \$17,950 max.	\$23,100 max
Appeal – Per credit appealed (if any)	\$500	\$500

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Regional Priority Credits		NC	Schools	CS
		*4 Points max. out of 6		
Credit 1.1	Regional Priority Credit: Defined by Zip Code	1*	1*	1*
Credit 1.2	Regional Priority Credit: Defined by Zip Code	1*	1*	1*
Credit 1.3	Regional Priority Credit: Defined by Zip Code	1*	1*	1*
Credit 1.4	Regional Priority Credit: Defined by Zip Code	1*	1*	1*
Credit 1.5	Regional Priority Credit: Defined by Zip Code	1*	1*	1*
Credit 1.6	Regional Priority Credit: Defined by Zip Code	1*	1*	1*

<http://www.usgbc.org/ShowFile.aspx?DocumentID=5667>



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LEED Certification Time Lines

On-line Registration	Upon payment
Documentation – Online	During design/const.
Design Submittal – Initial	25 bus. days
– 2 nd Review	15 bus. days
Construction Submittal – Initial	25 bus. days
– 2 nd Review	15 bus. days
-or- Combined D/C Submittal – Initial	25 bus. days
– 2 nd Review	15 bus. days
Appeal Process	25 bus. days

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Establishing USGBC Website User Profile

1. Go to website www.usgbc.org
2. Click on **Sign In** along the top bar
3. If you don't already have a User Profile, click on hyperlink **Create a Site User Account**
4. Enter personal information
5. For **Organization**, enter your agency: (e.g. - **California Department of General Services**)
6. Enter **Corporate ID** for your agency (if USGBC member) – contact your agency's primary contact for corporate ID and exact name for agency
7. Click **Submit your Registration** at the bottom of the form, and you should receive a password to go with your own email address when gaining access to member portions of the site.
8. Once your user profile is set up, then members can access templates and other member sections. LEED team members can gain access to LEED-Online projects, even if not members if invited to join team

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LEED On-Line Demonstration

Invite Team Members to Join Project Access

- LEED-Online Project Team Administrator sends invitations to join project
- Assigns rolls/titles

Assigning LEED tasks

- Administrator assigns specific credits to team members (by roll)

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USGBC Member Agencies

(& Primary Contacts)

CalSTRS – Contact tgonzales@calstrs.com
CDCR – Contact lindsey.rowell@cdcr.ca.gov
CEC – Contact ehebert@energy.state.ca.us
CIWMB – Contact gdick@ciwmb.ca.gov
CSU – Contact wjacobs@calstate.edu
DGS – Contact daniel.burgoyne@dgs.ca.gov
DMV – Contact mhaviland@dmv.ca.gov
DOT – Contact steve_schoff@dot.ca.gov
DPH – Contact leon.alevantis@cdph.ca.gov
DWR – Contact diaz@water.ca.gov
JCC – Contact pearl.freeman@jud.ca.gov
Parks – Contact jfeather@parks.ca.gov
UC – Contact matthew.stclair@ucop.ca.gov

Letter Templates

- On-line form required for every credit
- Access to letter templates
 - Registered projects have access to each template for credits sought
 - Sample letter templates on www.usgbc.org/DisplayPage.aspx?CMSPageID=1447
- Includes signature block for person responsible for credit
- Includes space for narrative for credit
- Can attach numerous types, formats and examples of documentation
 - Everything is electronic format

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LEED On-Line Access

1. Go to <https://leedonline.usgbc.org/Login>
2. Click on **LEED-Online** on right
3. Enter Login information on left of screen
4. Enter **Email Address** and **Password** (same as user profile info)
5. Select project to access – click **Enter**
 - Project access only available when invited by the project's LEED coordinator

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Credit Interpretation Rulings (CIR's)

- Questions and answers interpreting specific credits for special circumstances
- First search past rulings by credit or key word and version of LEED
- If question not already addressed, can request new ruling on-line
 1. Describe challenge described by project
 2. Emphasize stated intent of credit
 3. Offer potential solutions to problem & solicit approval
 4. \$220 fee per individual credit requested
 5. 3-4 week wait

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LEED Accreditation

Current LEED-AP designation did not need renewal

- Becomes "Legacy AP", can convert over to LEED AP+ within 2 yrs.

Accreditation structure changing to 3 levels of accreditation:

1. **LEED Green Associate** – core accreditation (200 level)
 - Minimal educational units required (~10 hrs/2 yrs.)
 - Implemented ~ May 2009
2. **LEED-AP +** one of 5 types of accreditation (300 level)
 - LEED Operation & Maintenance (O&M) - May
 - Homes - June/July
 - Building Design & Construction (includes Core & Shell) - August
 - Interior Design & Construction - August
 - Neighborhood Development TBD
3. **LEED Fellow** (yet to be determined)

Renewal fee (est. \$50 every 2 yrs)

Educational units will be required (~30 hrs/2 yrs.)

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LEED-AP Exam

LEED-NC v2.2 Exam – www.gbci.org

- Only available to those who registered prior to April 1st to take exam by June 30th

LEED AP+ BD&C Exam

- Available in late August 2009 (estimated)

For all Exam Info see www.gbci.org

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Study References for Today's & Next Week's Classes

LEED BD&C Reference Guide

- 5/4 AM: Intro (pp i-xxv)
- 5/4 PM: Sustainable Sites (pp. 1-159)
- 5/11 AM: Water Efficiency pp 161-212
- 5/11 AM: Multiple Building Application Guide
www.usgbc.org/ShowFile.aspx?DocumentID=1097
- 5/11 AM: Energy and Atmosphere (pp. 213-333)
- 5/11 PM: Materials & Resources (pp. 335-400)

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