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

Class 1:  
Course Overview, Exec. Order,  
USGBC & LEED  

May 4, 2009  

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?  

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  

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  

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?  

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
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

Recommended References

- 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)

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

Additional LEED 2009 References

LEED Green Building Rating System References
- 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

One More Motivation…
Executive Order S-20-04
Signed December 14, 2004

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 2009
  • ZNE commercial bldgs by 2030
    - State of CA buildings ZNE by 2025
    - LEED-NC Gold certification for State bldgs.
    www.arb.ca.gov/co/scopingplan/document/psp.pdf

Energy and Resource Efficiency
Reduce energy use by 20% by 2015
Retrofit, build and operate the most energy and resource efficient public buildings

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

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.”
California Cities with LEED Adoptions

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


State of California’s LEED-NC Buildings

- 14 buildings already LEED-NC certified
- 221 current buildings pursuing LEED certification

- 81 building projects (> 6,1 M sq. ft.)

CalSTRS Headquarters
West Sacramento

California Cities with LEED Adoptions

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


State of California’s LEED-NC Buildings

- 14 buildings already LEED-NC certified
- 221 current buildings pursuing LEED certification

- 81 building projects (> 6,1 M sq. ft.)

CalSTRS Headquarters
West Sacramento
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)

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

Cal EPA Headquarters
LEED-EB Platinum
(November 2003)

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

USGBC Membership Companies

U.S. Building Impacts:
- 12% Water Use
- 30% Greenhouse Gas Emissions
- 65% Waste Output
- 70% Electricity Consumption
Average Savings of Green Buildings:
- Energy Savings: 30%
- Carbon Savings: 35%
- Water Use Savings: 30-50%
- Waste Cost Savings: 50-90%

Source: Capital E

- 2004 Report by California’s Sustainable Building Task Force
- Reviewed 33 buildings built over previous 10 years
- ~2% investment yielded 20% return
  - $100K investment in $5M project yields $1M return

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

DGS: LEED-NC Certification & Accreditation

California Study:
- 2004 Report by California’s Sustainable Building Task Force
- Reviewed 33 buildings built over previous 10 years
- ~2% investment yielded 20% return
  - $100K investment in $5M project yields $1M return

DGS: LEED-BD&C Certification & Accreditation

- 2004 Report by California’s Sustainable Building Task Force
- Reviewed 33 buildings built over previous 10 years
- ~2% investment yielded 20% return
  - $100K investment in $5M project yields $1M return
GREEN IMPROVEMENTS PAY FOR THEMSELVES IN 3 YEARS

(ANNUAL RETURN ON INVESTMENT IS 25-40%)
### LEED BD&C Rating System

<table>
<thead>
<tr>
<th>Credit</th>
<th>Pre.</th>
<th>Pts.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre. 1</td>
<td>Sustainable Sites</td>
<td>1</td>
</tr>
<tr>
<td>Pre. 2</td>
<td>Water Efficiency</td>
<td>1</td>
</tr>
<tr>
<td>Pre. 3</td>
<td>Energy &amp; Atmosphere</td>
<td>3</td>
</tr>
<tr>
<td>Pre. 4</td>
<td>Materials &amp; Resources</td>
<td>1</td>
</tr>
<tr>
<td>Pre. 5</td>
<td>Indoor Environ. Quality</td>
<td>2</td>
</tr>
<tr>
<td>Pre. 6</td>
<td>Innovation</td>
<td>6</td>
</tr>
<tr>
<td>Pre. 7</td>
<td>Regional Points</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total Available Points:** 8

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

**Point System with 4 levels of certification:**

- **NC v2.2**
  - LEED Certified: 26-32 Points
  - LEED Silver: 33-38 Points
  - LEED Gold: 39-51 Points
  - LEED Platinum: 52-69 Points

- **BD&C v2009**
  - LEED Certified: 26-32 Points
  - LEED Silver: 33-38 Points
  - LEED Gold: 39-51 Points
  - LEED Platinum: 52-69 Points

*www.usgbc.org*
*www.gbc.org*

Class 1: May 4, 2009

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### Water Efficiency

<table>
<thead>
<tr>
<th>Credit</th>
<th>Pre.</th>
<th>Pts.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre. 1</td>
<td>Water Use Reduction, 20% Reduction</td>
<td>N/A</td>
</tr>
<tr>
<td>Credit 1.1</td>
<td>Water Efficient Landscaping, Reduce by 50%</td>
<td>N/A</td>
</tr>
<tr>
<td>Credit 1.2</td>
<td>Water Efficient Landscape, No Potable Use or No Irrigation*</td>
<td>N/A</td>
</tr>
<tr>
<td>Credit 2</td>
<td>Innovative Wastewater Technologies</td>
<td>N/A</td>
</tr>
<tr>
<td>Credit 3</td>
<td>Water Use Reduction, 30%</td>
<td>N/A</td>
</tr>
<tr>
<td>Credit 3.1</td>
<td>Water Use Reduction, 35%* (points cumulate)</td>
<td>N/A</td>
</tr>
<tr>
<td>Credit 3.2</td>
<td>Water Use Reduction, 40%* (points cumulate)</td>
<td>N/A</td>
</tr>
<tr>
<td>Credit 4</td>
<td>Process Water Use Reduction, 20%</td>
<td>N/A</td>
</tr>
</tbody>
</table>

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### Energy & Atmosphere

<table>
<thead>
<tr>
<th>Credit</th>
<th>Pre.</th>
<th>Pts.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre. 1</td>
<td>Fundamental Commissioning of the Bldg. Energy Systems</td>
<td>N/A</td>
</tr>
<tr>
<td>Pre. 2</td>
<td>Min. Energy Performance: 10% New or 5% Exist. Bldg. Ren.</td>
<td>N/A</td>
</tr>
<tr>
<td>Pre. 3</td>
<td>Fundamental Refrigerant Management</td>
<td>N/A</td>
</tr>
<tr>
<td>Credit 1</td>
<td>Optimize Energy Perf. 12-48% New Or 8-44% Exist. Renov</td>
<td>1 to 19</td>
</tr>
<tr>
<td>Credit 2</td>
<td>On-Site Renewable Energy 1-13% Renewable Energy</td>
<td>1 to 7</td>
</tr>
<tr>
<td>Credit 3</td>
<td>Enhanced Commissioning</td>
<td>2</td>
</tr>
<tr>
<td>Credit 4</td>
<td>Enhanced Refrigerant Management</td>
<td>2</td>
</tr>
<tr>
<td>Credit 5</td>
<td>Measurement &amp; Verification</td>
<td>3</td>
</tr>
<tr>
<td>Credit 5.1</td>
<td>Measurement &amp; Verification, Base Building</td>
<td>NA</td>
</tr>
<tr>
<td>Credit 5.2</td>
<td>Measurement &amp; Verification, Tenant Submetering</td>
<td>NA</td>
</tr>
<tr>
<td>Credit 6</td>
<td>Green Power</td>
<td>2</td>
</tr>
</tbody>
</table>

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### Materials & Resources

<table>
<thead>
<tr>
<th>Credit</th>
<th>Pre.</th>
<th>Pts.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre. 1</td>
<td>Storage &amp; Collection of Recyclables</td>
<td>N/A</td>
</tr>
<tr>
<td>Credit 1.1</td>
<td>Bldg. Use, Maintain % of Existing Walls, Floors &amp; Roof</td>
<td>N/A</td>
</tr>
<tr>
<td>Credit 1.2</td>
<td>Bldg. Use, Maintain % of Existing Walls, Floors &amp; Roof</td>
<td>N/A</td>
</tr>
<tr>
<td>Credit 1.3</td>
<td>Bldg. Use, Maintain % of Existing Walls, Floors &amp; Roof</td>
<td>N/A</td>
</tr>
<tr>
<td>Credit 1.4</td>
<td>Bldg. Use, Maintain % of Existing Walls, Floors &amp; Roof</td>
<td>N/A</td>
</tr>
<tr>
<td>Credit 1.5</td>
<td>Bldg. Use, Maintain % of Existing Walls, Floors &amp; Roof</td>
<td>N/A</td>
</tr>
<tr>
<td>Credit 2</td>
<td>Construction Waste Management</td>
<td>N/A</td>
</tr>
<tr>
<td>Credit 2.1</td>
<td>Construction Waste Management</td>
<td>N/A</td>
</tr>
<tr>
<td>Credit 2.2</td>
<td>Construction Waste Management</td>
<td>N/A</td>
</tr>
<tr>
<td>Credit 2.3</td>
<td>Materials Use, 5%</td>
<td>N/A</td>
</tr>
<tr>
<td>Credit 3</td>
<td>Materials Use, 10%</td>
<td>N/A</td>
</tr>
<tr>
<td>Credit 3.1</td>
<td>Recycled Content, 10% (post-consumer + ½ pre-consumer)</td>
<td>N/A</td>
</tr>
<tr>
<td>Credit 3.2</td>
<td>Recycled Content, 20% (post-consumer + ½ pre-consumer)</td>
<td>N/A</td>
</tr>
<tr>
<td>Credit 4</td>
<td>Regional Materials, 10% Extracted, Processed &amp; Manufd.</td>
<td>N/A</td>
</tr>
<tr>
<td>Credit 4.1</td>
<td>Regional Materials, 20% Extracted, Processed &amp; Manufd.</td>
<td>N/A</td>
</tr>
<tr>
<td>Credit 4.2</td>
<td>Regional Materials, 30% Extracted, Processed &amp; Manufd.</td>
<td>N/A</td>
</tr>
<tr>
<td>Credit 5</td>
<td>Rapidly Renewable Materials, 2.5%</td>
<td>N/A</td>
</tr>
<tr>
<td>Credit 6</td>
<td>Certified Wood, 50% (diff. credit number for Core &amp; Shell)</td>
<td>N/A</td>
</tr>
<tr>
<td>Credit 7</td>
<td>Certified Wood, 50%</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**Class 1: May 4, 2009**

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### Sustainable Sites

<table>
<thead>
<tr>
<th>Credit</th>
<th>Pre.</th>
<th>Pts.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre. 1</td>
<td>Construction Activity Pollution Prevention</td>
<td>NA</td>
</tr>
<tr>
<td>Pre. 2</td>
<td>Environmental Site Assessment</td>
<td>NA</td>
</tr>
<tr>
<td>Credit 1</td>
<td>Site Selection</td>
<td>1</td>
</tr>
<tr>
<td>Credit 2</td>
<td>Development Density &amp; Community Connectivity</td>
<td>5</td>
</tr>
<tr>
<td>Credit 3</td>
<td>Brownfield Redevelopment</td>
<td>1</td>
</tr>
<tr>
<td>Credit 4</td>
<td>Alternative Transportation, Public Transportation Access</td>
<td>6</td>
</tr>
<tr>
<td>Credit 5</td>
<td>Alt. Transportation, Bicycle Storage &amp; Changing Rooms</td>
<td>1</td>
</tr>
<tr>
<td>Credit 6</td>
<td>Alt. Transportation, Low-Emitting &amp; Fuel-Efficient Vehicles</td>
<td>3</td>
</tr>
<tr>
<td>Credit 7</td>
<td>Alternative Transportation, Parking Capacity</td>
<td>2</td>
</tr>
<tr>
<td>Credit 8</td>
<td>5.1 Site Development, Protect or Restore Habitat</td>
<td>1</td>
</tr>
<tr>
<td>Credit 9</td>
<td>5.2 Site Development, Maximize Open Space</td>
<td>1</td>
</tr>
<tr>
<td>Credit 10</td>
<td>Stormwater Design, Quantity Control</td>
<td>1</td>
</tr>
<tr>
<td>Credit 11</td>
<td>Stormwater Design, Quality Control</td>
<td>1</td>
</tr>
<tr>
<td>Credit 12</td>
<td>Heat Island Effect, Non-Roof</td>
<td>1</td>
</tr>
<tr>
<td>Credit 13</td>
<td>Heat Island Effect, Roof</td>
<td>1</td>
</tr>
<tr>
<td>Credit 14</td>
<td>Light Pollution Reduction</td>
<td>1</td>
</tr>
<tr>
<td>Credit 15</td>
<td>Site Masterplan</td>
<td>NA</td>
</tr>
<tr>
<td>Credit 16</td>
<td>Joint Use of Facilities</td>
<td>NA</td>
</tr>
</tbody>
</table>

**Class 1: May 4, 2009**

DGS: LEED-BD&C Certification & Accreditation
Eight Steps to LEED Certification

1. LEED On-line Registration [www.gbc.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

LEED Certification Fees

For DGS related projects contact: daniel.burgoyne@dgs.ca.gov

<table>
<thead>
<tr>
<th></th>
<th>USGBC Members</th>
<th>USGBC Non-Members</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LEED Registration</strong></td>
<td>$450 Flat Fee</td>
<td>$600 Flat Fee</td>
</tr>
<tr>
<td><strong>LEED Design Submittal</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&lt;50,000 or 100,000 s.f.</td>
<td>$1,250 min.</td>
<td>$5,000 min.</td>
</tr>
<tr>
<td>&gt;500,000 s.f.</td>
<td>$12,500 max.</td>
<td>$50,000 max.</td>
</tr>
<tr>
<td><strong>LEED Construction Submittal</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&lt;50,000 or 100,000 s.f.</td>
<td>$500 min.</td>
<td>$2,200 min.</td>
</tr>
<tr>
<td>&gt;500,000 s.f.</td>
<td>$17,950 max.</td>
<td>$17,950 max.</td>
</tr>
<tr>
<td><strong>Total Fees</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&lt;50,000 or 100,000 s.f.</td>
<td>$2,200 min.</td>
<td>$2,200 min.</td>
</tr>
<tr>
<td>&gt;500,000 s.f.</td>
<td>$23,100 max.</td>
<td>$23,100 max.</td>
</tr>
<tr>
<td><strong>Appeal – Per credit appealed (if any)</strong></td>
<td>$500</td>
<td>$500</td>
</tr>
</tbody>
</table>

LEED Certification Time Lines

<table>
<thead>
<tr>
<th></th>
<th>Upon payment</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>On-line Registration</strong></td>
<td></td>
</tr>
<tr>
<td>Documentation – Online</td>
<td>During design/const.</td>
</tr>
<tr>
<td><strong>Design Submittal – Initial</strong></td>
<td></td>
</tr>
<tr>
<td>2nd Review</td>
<td>25 bus. days</td>
</tr>
<tr>
<td><strong>Construction Submittal – Initial</strong></td>
<td></td>
</tr>
<tr>
<td>2nd Review</td>
<td>25 bus. days</td>
</tr>
<tr>
<td>-or- Combined D/C Submittal – Initial</td>
<td></td>
</tr>
<tr>
<td>2nd Review</td>
<td>25 bus. days</td>
</tr>
<tr>
<td>Appeal Process</td>
<td>25 bus. days</td>
</tr>
</tbody>
</table>
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.

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.stclaire@ucop.ca.gov

LEED On-Line Demonstration

Invite Team Members to Join Project Access
- LEED-Online Project Team Administrator sends invitations to join project
- Assigns roles/titles
Assigning LEED tasks
- Administrator assigns specific credits to team members (by roll)

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

Letter Templates
- On-line form required for every credit
- Access to letter templates
  - Registered projects have access to each template for credits sought
- 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

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
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](http://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](http://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
- 5/11 AM: Energy and Atmosphere (pp. 213-333)
- 5/11 PM: Materials & Resources (pp. 335-400)