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# LEED O&M Mock Exam: Questions, Answers, and Explanations: A Must-Have for the LEED AP O+M Exam, Green Building LEED Certification, and Sustainability ... of the 1st Edition) (Leed Exam Guides)

By Gang Chen



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**Pass the LEED O&M Exam, Get Your Building LEED Certified, Fight Global Warming, and Save Money!**

Starting on December 1, 2011, GBCI began to draw LEED AP O+M Exam questions from the second edition of *Green Building and LEED Core Concepts Guide*. We have incorporated this latest information in our books.

LEED (Leadership in Energy and Environmental Design) is one of the most important trends in development and is revolutionizing the construction industry. It has gained tremendous momentum and has a profound impact on our environment.

From this book, you will be able to:

1. Identify your weakness through practice questions
2. Learn to work well under the pressure of timed tests
3. Check your responses against the solutions
4. Understand the solutions for the difficult questions through the explanations
5. Fully understand the scope, difficulty level, and format of the LEED O&M Exam
6. Learn how to pass the LEED O&M Exam

There is NO official GBCI book on the LEED O&M Exam. LEED O&M Mock Exams fills in the blanks and demystifies LEED. The book includes 200 questions and simulates the real exam in every aspect, including scope, difficulty level, format, and number of questions in each LEED category. It includes questions, answers, and explanations. This book is small and easy to carry around. You can read it whenever you have spare minutes. It is an indispensable resource for ordinary people, developers, brokers, contractors, administrators, architects, landscape architects, engineers, interns, drafters, designers, and other design professionals.

**Sample Questions for "LEED O&M Mock Exam"**

101. A project team needs to submit a minimum of ( ) of water for WEc1: Water Performance Measurement.

- a. 60%
- b. 70%
- c. 80%
- d. 90%

102. For a multitenant building, a project team needs to involve a minimum of ( ) of the total gross floor space.

- a. 60%
- b. 70%
- c. 80%
- d. 90%

103. For an office building seeking LEED O&M certification, a project team needs to address all of the following for SS2, Building Exterior and Hardscape Management Plan except:

- a. building exterior cleaning.
- b. painting used on the building exterior for a detached parking garage.
- c. snow and ice removal.
- d. hardscape cleaning.

You can find 200 mock exam questions, answers, and explanations in LEED O&M Mock Exam.

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- Sales Rank: #2233300 in Books
- Brand: Brand: ArchiteG, Incorporated
- Published on: 2012-01-27
- Original language: English
- Number of items: 1
- Dimensions: 8.00" h x .39" w x 5.00" l, .39 pounds
- Binding: Paperback
- 172 pages

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## **Editorial Review**

Review

### **Must read...**

Chock full of mock test questions that simulate the actual exam to a tee. This book should be your first stop on the road to your LEED AP O&M...and then your last stop...Highly recommended.

--Neil Rosen, AIA, member of USGBC's ERB

From the Author

**Latest trend for LEED Exams** Recently, there are quite a few readers run into the versions of the LEED exams that have many questions on refrigerants (CFC, HCFC, and HFC), the following advice will help you answer these questions correctly:

For more information, see free pdf file of "The Treatment by LEED of the Environmental Impact of HVAC Refrigerants" that you can download at link below:

[gbci.org/Files/References/The-Treatment-by-LEED-of-the-Environmental-Impact-of-HVAC-Refrigerants.pdf](http://gbci.org/Files/References/The-Treatment-by-LEED-of-the-Environmental-Impact-of-HVAC-Refrigerants.pdf)

This is a VERY important document that you need to become familiar with. Many real LEED exam questions (CFC, HCFC, and HFC, etc.) come from this document. You need to download it for free and read it at least 3 times.

Pay special attention to the Table on ODP and GWP on page 3. You do not have to remember the exact value of all ODPs and GWPs, but you do need to know the rough number for various groups of refrigerants."

This latest trend regarding refrigerants (CFC, HCFC, and HFC) for LEED Exams has a lot to do with LEED v3.0 Credit Weighting. EA (including refrigerants) is the biggest winner in LEED v3.0, meaning the category has MORE questions than any other areas for ALL the LEED exams. See pages 36 to 38 of my book, *LEED GA Exam Guide* quoted below:

### ***How are LEED credits allocated and weighted?***

**Answer:** *They are allocated and weighted per strategies that will have greater positive impacts on the most important environmental factors: CO2 reductions and energy efficiency.*

*They are weighted against 13 aftereffects of human activities, including carbon footprint / climate change (25%), indoor-air quality (15%), resource/fossil-fuel depletion (9%), particulates (8%), water use/water intake (7%), human health: cancer (7%), ecotoxicity (6%), eutrophication (5%), land use/habitat alteration (5%), human health: non cancer (4%), smog formation (4%), acidification (3%), and ozone depletion (2%).*

*These 13 aftereffects were created by the U.S. Environmental Protection Agency (EPA), and are also known as "TRACI", a mnemonic for "Tool for the Reduction and Assessment of Chemical and Other Environmental Impacts."*

*1) The USGBC used a reference building to estimate environmental impact in the 13 categories above.*

2) The USGBC also used a tool developed by the National Institute of Standard and Technology (NIST) to prioritize the TRACI categories.

3) The USGBC also created a matrix to show the existing LEED credits and the TRACI categories, and used data that quantify building impacts on human health and environment to allocate points for each credit.

The points for Energy and Transportation credits have been greatly increased in LEED 2009, primarily because of the importance to reduce carbon or greenhouse gas emissions. Water Efficiency is also a big winner in the credits, doubling from 5 to 10 points for some LEED rating systems.

In addition to the weighting exercise, the USGBC also used value judgments, because if they only used the TRACI-NIST tool, some existing credits would be worth almost nothing, like the categories for human health and indoor air quality. The USGBC wanted to keep the LEED system somewhat consistent and retained the existing credits including those with few environmental benefits. So each credit was assigned at least one point in the new system.

There are NO negative values or fractions for LEED points.

20% reduction of indoor water-use used to be able to gain points, now this is a prerequisite in LEED 2009.

### **USGBC and GBCI seem to enjoy confusing LEED exam takers and making their lives miserable**

One thing that I notice is that USGBC and GBCI tend to spread their information everywhere, but not in one place. They seem to enjoy confusing LEED exam takers and making their lives miserable.

For example, they have some information regarding the responsible party and project phase or case studies that are part of their workshops, but not in their reference guide; they also have a lot of information that is at the GBCI and USGBC websites, but not anywhere else, such as CIR guidelines, MPRs and related requirements, etc.

I just finished writing "LEED Green Associate Exam Guide" (published on 12/22/11), "LEED GA Mock Exams" (published on 3/9/12), "LEED BD&C Exam Guide" (published on 1/26/12), "LEED ID&C Exam Guide" (published on 1/28/12), "LEED ID&C Mock Exam" (published on 1/28/12) and "LEED O&M Exam Guide" (published on 1/27/12). Another thing that I notice is that because USGBC has expanded the LEED systems so much, they have to have different task groups to write different reference guides, but they are NOT even consistent between reference guides for different LEED systems. It seems like their task forces do not even talk to each other and coordinate: For example, ALL LEED systems were based on the platform set by LEED NC, but for EAp2, LEED CI only listed 2 related credits as synergies, but the LEED NC has included MANY more credits for synergies for the same credit, and most of them DO apply to LEED CI also, but the LEED ID+C reference guide misses these credits. Page 121 of LEED Interior Design and Construction Reference Guide also mistakenly listed EAp1 as IEQp2 under Domestic hot water systems for Table 1.

If you are taking the LEED GA Exam, you can take USGBC courses or workshops. You should take USGBC classes at both the 100 (Awareness) and 200 (LEED Core Concepts and Strategies) level to successfully prepare for the exam. A one-day course can cost \$445 if you register early enough, and can be as expensive as \$495 if you miss the early bird special. You will also have to wait until the USGBC workshops or courses are offered in a city near you.

The problem is: when you go there, after you spend 8 hours and close to \$500 for each workshop, the instructor will tell you that the workshops are NOT for LEED exam prep. Come on, you have just spent so much money and time and go through the trouble for the workshops, and they just tell you now the workshops are NOT tailored for the LEED exams? Give me a break.

So, I think third party books are absolutely necessary and they are much more helpful than the USGBC publications and workshops or GBCI and USGBC websites alone.

You can find sample texts and other information on the LEED Exam Guides Series in customer discussion sections under each of my book's listing on Amazon.

#### About the Author

Gang Chen holds a master's degree from the School of Architecture, University of Southern California (USC), Los Angeles, and a bachelor's degree from the School of Architecture, South China University of Technology. He has over 20 years of professional experience. Many of the projects he was in charge of or participated in have been published extensively in *Architecture*, *Architectural Record*, *The Los Angeles Times*, *The Orange County Register*, etc. He has worked on a variety of unusual projects, including well-known, large-scale healthcare and hospitality projects with over one billion dollars in construction costs; award-winning school designs, highly-acclaimed urban design and streetscape projects, multifamily housing, high-end custom homes, and regional and neighborhood shopping centers.

Gang Chen is a LEED AP BD+C and a licensed architect in California. He is also the internationally acclaimed author of other fascinating books, including *Building Construction*, *Planting Design Illustrated*, ARE Mock Exam Series and LEED Exam Guides Series, which include one guidebook for each of the LEED exams. For more information, visit **[GreenExamEducation.com](http://GreenExamEducation.com)**

#### Users Review

##### From reader reviews:

##### Lori McDonald:

The feeling that you get from LEED O&M Mock Exam: Questions, Answers, and Explanations: A Must-Have for the LEED AP O+M Exam, Green Building LEED Certification, and Sustainability ... of the 1st Edition) (Leed Exam Guides) is the more deep you digging the information that hide into the words the more you get enthusiastic about reading it. It doesn't mean that this book is hard to be aware of but LEED O&M Mock Exam: Questions, Answers, and Explanations: A Must-Have for the LEED AP O+M Exam, Green Building LEED Certification, and Sustainability ... of the 1st Edition) (Leed Exam Guides) giving you thrill feeling of reading. The copy writer conveys their point in particular way that can be understood through anyone who read it because the author of this book is well-known enough. This specific book also makes your personal vocabulary increase well. It is therefore easy to understand then can go along, both in printed or e-book style are available. We propose you for having this kind of LEED O&M Mock Exam: Questions, Answers, and Explanations: A Must-Have for the LEED AP O+M Exam, Green Building LEED Certification, and Sustainability ... of the 1st Edition) (Leed Exam Guides) instantly.

##### Isaiah Owen:

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idea. Ebooks can also inspire a lot of people. A great deal of author can inspire their reader with their story or maybe their experience. Not only situation that share in the textbooks. But also they write about the knowledge about something that you need instance. How to get the good score toefl, or how to teach your sons or daughters, there are many kinds of book that you can get now. The authors on earth always try to improve their expertise in writing, they also doing some study before they write for their book. One of them is this LEED O&M Mock Exam: Questions, Answers, and Explanations: A Must-Have for the LEED AP O+M Exam, Green Building LEED Certification, and Sustainability ... of the 1st Edition) (Leed Exam Guides).

### **Amado Spieker:**

This LEED O&M Mock Exam: Questions, Answers, and Explanations: A Must-Have for the LEED AP O+M Exam, Green Building LEED Certification, and Sustainability ... of the 1st Edition) (Leed Exam Guides) is great book for you because the content that is certainly full of information for you who all always deal with world and possess to make decision every minute. This kind of book reveal it details accurately using great arrange word or we can state no rambling sentences inside it. So if you are read this hurriedly you can have whole info in it. Doesn't mean it only gives you straight forward sentences but hard core information with beautiful delivering sentences. Having LEED O&M Mock Exam: Questions, Answers, and Explanations: A Must-Have for the LEED AP O+M Exam, Green Building LEED Certification, and Sustainability ... of the 1st Edition) (Leed Exam Guides) in your hand like finding the world in your arm, information in it is not ridiculous one. We can say that no e-book that offer you world within ten or fifteen small right but this book already do that. So , this is certainly good reading book. Hello Mr. and Mrs. active do you still doubt that will?

### **Homer Holmes:**

You could spend your free time to study this book this guide. This LEED O&M Mock Exam: Questions, Answers, and Explanations: A Must-Have for the LEED AP O+M Exam, Green Building LEED Certification, and Sustainability ... of the 1st Edition) (Leed Exam Guides) is simple to deliver you can read it in the playground, in the beach, train and also soon. If you did not have much space to bring the particular printed book, you can buy the particular e-book. It is make you easier to read it. You can save typically the book in your smart phone. Thus there are a lot of benefits that you will get when one buys this book.

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