

# Exam LEED-AP-BD-C Flashcards | Exam LEED-AP-BD-C Vce

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071306T4EEN  
Electrical Engineering (Power Option) Level 6  
ENG/CU/PO/CR/02/6  
Install Electrical Power Lines  
July/August 2023  
Time: 3 Hours



TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION  
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## WRITTEN ASSESSMENT

3 HOURS

### INSTRUCTIONS TO CANDIDATE:

*This paper consists of TWO sections: A and B.  
Answer ALL questions in sections A and B in the answer booklet provided.  
Marks for each question are indicated in brackets.  
Do not write on this question paper.  
Answer the questions in English.*

**This paper consists of three (3) printed pages.**

**Candidate should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.**

Page 1 of 3

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## USGBC LEED-AP-BD-C Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> <li>LEED Process: This topic tests the skills of LEED Green Associates involved in green building initiatives. It focuses on various methods to achieve LEED goals, such as developing credit interpretation rulings and utilizing Regional Priority Credits to explore synergies within the LEED system</li> </ul>
Topic 2	<ul style="list-style-type: none"> <li>Indoor Environmental Quality: This domain measures the skills of LEED Green Associates in creating healthy indoor environments. It emphasizes the importance of maintaining adequate ventilation levels through both natural and mechanical means. Additionally, candidates will be assessed on topics such as tobacco smoke control measures.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>Location and Transportation: This topic measures the skills of LEED Green Associates in sustainable development. It addresses critical factors in site selection, including development constraints and opportunities related to environmental considerations, and community connectivity concepts, such as walkability and street design, which are vital for promoting sustainable transportation options.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>Indoor Water Use Reduction: This section measures the skills of LEED Green Associates in minimizing indoor water consumption to reduce water use effectively, including toilets, urinals, faucets, and showerheads. Additionally, candidates will examine appliance types that consume water, such as cooling towers and washing machines.</li> </ul>
Topic 5	<ul style="list-style-type: none"> <li>Sustainable Sites: It covers site assessment and planning that involves evaluating various site characteristics, such as topography, hydrology, climate, vegetation, and soil conditions. It also covers assessing a site's potential as a resource for energy flows while addressing construction activity pollution prevention measures.</li> </ul>
Topic 6	<ul style="list-style-type: none"> <li>Energy and Atmosphere: In this topic, LEED Green Associates focuses on building reuse, including historic building renovations. It covers material reuse strategies, enclosure materials, and permanently installed interior components into new designs.</li> </ul>
Topic 7	<ul style="list-style-type: none"> <li>Building Loads: This topic is focused on optimizing building performances through effective load management. It addresses design considerations such as building orientation and glazing selection while clarifying regional factors that influence these decisions.</li> </ul>
Topic 8	<ul style="list-style-type: none"> <li>Project Surroundings and Public Outreach: LEED Green Associates learn about promoting sustainable practices, regional design considerations that incorporate green construction measures, cultural awareness issues related to historic or heritage impacts, and ensuring that sustainability efforts are respectful of local values.</li> </ul>

## USGBC LEED AP Building Design + Construction (LEED AP BD+C) Sample Questions (Q168-Q173):

### NEW QUESTION # 168

A facility manager cleaning highly reflective paving material is

- A. reducing the heat island effect
- B. increasing the heat island effect
- C. unnecessarily wasting water
- D. lowering the Solar Reflectance Index (SRI)

**Answer: A**

Explanation:

#### Explanation

The heat island effect is the phenomenon of urban areas having higher air temperatures than surrounding rural areas due to the absorption and emission of heat by human-made surfaces, such as buildings, roads, and pavements. The heat island effect can have negative impacts on the environment, human health, and energy consumption. One of the strategies to reduce the heat island effect is to use highly reflective paving materials that have a high solar reflectance index (SRI), which measures the ability of a surface to reflect solar radiation and stay cool. However, over time, the paving materials can accumulate dirt and dust, which can lower their reflectance and increase their heat absorption. Therefore, a facility manager cleaning highly reflective paving material is reducing the heat island effect by restoring the reflectance and cooling potential of the surface<sup>1,2</sup>.

#### References:

\*Heat Island Reduction | U.S. Green Building Council

\*SpecTopics: Heat Island Reduction Credit and LEED V4/V4.1 - Carlisle SynTec

#### NEW QUESTION # 169

Which of the following would be most useful to a school project that is attempting to pursue Water Efficiency Credit, Indoor Water Use Reduction?

- A. Electronic submeter at the domestic water supply pipe to the building
- **B. Commercial dishwasher that is ENERGY STAR labeled or performance equivalent**
- C. An open-loop HVAC system that discharges potable cooling water to a nearby lake
- D. A standard garbage disposal

#### Answer: B

#### Explanation:

The Water Efficiency Credit, Indoor Water Use Reduction aims to reduce indoor water consumption by installing water-efficient fixtures and fittings, such as faucets, showerheads, toilets, and urinals<sup>1</sup>. A commercial dishwasher that is ENERGY STAR labeled or performance equivalent would help reduce the water use for dishwashing, which is one of the process water uses included in the credit calculation<sup>2</sup>. A standard garbage disposal would not reduce water use, but rather increase it. An electronic submeter at the domestic water supply pipe to the building would help measure and monitor water use, but not directly reduce it. An open-loop HVAC system that discharges potable cooling water to a nearby lake would waste a lot of water and potentially harm the environment.

#### NEW QUESTION # 170

What is the definition of the evapotranspiration rate?

- A. Percentage of potable water usage for irrigation
- B. Water loss from evaporation in micro irrigation systems
- C. Evaporation of onsite reuse water
- **D. Amount of water loss in a vegetated surface in units of water depth**

#### Answer: D

#### Explanation:

The evapotranspiration rate is the amount of water loss in a vegetated surface in units of water depth, such as millimeters or inches. It is a measure of the water demand of the plants and the climate conditions. It is used to calculate the baseline water use for irrigation in the Outdoor Water Use Reduction credit.

#### Reference:

\* LEED v4 BD+C Reference Guide, page 5381

\* Outdoor Water Use Reduction Credits in LEED v4 - HydroPoint<sup>2</sup>

#### NEW QUESTION # 171

What is a viable strategy for optimizing open space under Sustainable Sites Credit, Open Space? U

- **A. Coordinate open space features early during the site planning phase**
- B. Design a parking and road footprint layout that is not near open land
- C. Coordinate open space features during the construction phase
- D. Minimize the floor-area ratio (FAR) and accessibility for open space

**Answer: A**

Explanation:

Coordinating open space features early during the site planning phase is a viable strategy for optimizing open space under Sustainable Sites Credit, Open Space. This can help to preserve natural habitats, reduce heat island effects, and enhance human health and well-being. The credit requires that the project provide outdoor space that is at least 30% of the total site area, and that at least 25% of that outdoor space meets certain criteria for vegetated, pervious, or shaded areas. Reference:

LEED credit library: This is the USGBC's comprehensive listing of all the LEED credits available in pursuing certification for your project. The credit library contains the requirements and guidance for each credit, as well as the web-based reference guide for the Building Design and Construction rating system.

Open Space: This is the specific credit page for the Open Space credit under the Sustainable Sites category. It provides the intent, requirements, and strategies for achieving the credit, as well as the number of points available and the applicable project types.

Step by Step Approach to Comply with the Open Space Credit in LEED v4: This is a blog post that explains the steps and calculations involved in complying with the Open Space credit. It also provides some examples and tips for optimizing open space design.

### NEW QUESTION # 172

The maximum number of points for Water Efficiency Credit, Cooling Tower Water Use can be obtained by

- **A. achieving a minimum of 10 cooling tower cycles by increasing the level of make-up water treatment**
- B. limiting cooling tower make-up to 50% of a potable source
- C. conducting a one-time potable water analysis to determine acceptable non-potable sources
- D. utilizing a once-through system without recirculation

**Answer: A**

Explanation:

Achieving a minimum of 10 cooling tower cycles by increasing the level of make-up water treatment is the way to obtain the maximum number of points for Water Efficiency Credit, Cooling Tower Water Use. This credit aims to conserve water used for cooling tower equipment by encouraging the use of non-potable water sources and increasing the cycles of concentration<sup>1</sup>. The cycles of concentration are the ratio of the concentration of dissolved solids in the blowdown water to the concentration of dissolved solids in the make-up water<sup>2</sup>. Increasing the cycles of concentration reduces the amount of make-up water and blowdown water, and thus saves water and energy<sup>2</sup>. The credit has two options: Option 1. Non-potable Water Source (1 point) and Option 2.

Cooling Tower Water Use (2 points). Option 1 requires using at least 50% non-potable water for cooling tower make-up water<sup>1</sup>. Option 2 requires achieving a minimum number of cooling tower cycles based on the quality of the make-up water, as specified in Table 1 of the credit requirements<sup>1</sup>. The maximum number of cycles is 10, which can be achieved by increasing the level of make-up water treatment to meet the criteria for conductivity, silica, and alkalinity<sup>1</sup>. Therefore, Option 2 is the way to obtain the maximum number of points for this credit. Reference:

Credit: Cooling tower water use | U.S. Green Building Council

Cooling Tower Evaporation Credits | WaterSignal

### NEW QUESTION # 173

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