

LEED AP BUILDING OPERATIONS AND MAINTENANCE LEED AP O+M STUDY CARDS

132+ Questions and Answers
Study Cards!



LEARN.BEYONDSMARTCITIES.IN

What are the two
approaches to certifying
multiple buildings under
the Campus Program?



©Beyond Smart Cities Private Limited

Group Approach - Campus Approach



©Beyond Smart Cities Private Limited

Buildings that share a single location
and site attributes to achieve separate
LEED certification for each project,
building space, or group on the master
site should pursue which approach to
certifying multiple buildings?



©Beyond Smart Cities Private Limited

Campus Approach



©Beyond Smart Cities Private Limited

Buildings that share a single location and site attributes to achieve separate LEED certification for each project, building space, or group on the master site should pursue which approach to certifying multiple buildings?



©Beyond Smart Cities Private Limited

Campus Approach



©Beyond Smart Cities Private Limited

Identifying existing policies, practices, equipment, contracts, and budgets can set what?



©Beyond Smart Cities Private Limited

A baseline for improvement



©Beyond Smart Cities Private Limited

What should you do after setting a baseline?



©Beyond Smart Cities Private Limited

List the areas that may require significant change, moderate change, and low- or no-cost change in operating practices



©Beyond Smart Cities Private Limited

Name three types of environmental goals



©Beyond Smart Cities Private Limited

- Energy signature
- Energy benchmarks
- Site analysis



©Beyond Smart Cities Private Limited

What is an energy signature?



©Beyond Smart Cities Private Limited

An analysis of measured energy use in relation to seasonal fluctuations in temperature



©Beyond Smart Cities Private Limited

What are energy benchmarks?



©Beyond Smart Cities Private Limited

Comparing the building's energy use against recognized standards



©Beyond Smart Cities Private Limited

What is site analysis?



©Beyond Smart Cities Private Limited

A detailed site analysis identifies specific conditions—topography, wind patterns, solar availability and shading, water bodies, view corridors—that may guide decisions on rainwater runoff mitigation, landscape water reduction strategies, onsite renewable energy, and other capital investments.



©Beyond Smart Cities Private Limited

Name four types of organisational goals?



©Beyond Smart Cities Private Limited

- Corporate social responsibility report
- Organizational annual metrics
- Human resources policies
- Shareholders' or stakeholders' concerns



©Beyond Smart Cities Private Limited

The time when building infrastructure is assessed, policies are drafted, and programs and processes are put in place to enable ongoing performance measurement is known as what?



©Beyond Smart Cities Private Limited

The establishment period



©Beyond Smart Cities Private Limited

The continuous implementation of the strategies set during the establishment period is known as what?



©Beyond Smart Cities Private Limited

The performance period



©Beyond Smart Cities Private Limited

Establishment
requirements fall into what
two categories of credits?



©Beyond Smart Cities Private Limited

- Building components and site infrastructure
– Policies and plans



©Beyond Smart Cities Private Limited

What are building components
and site infrastructure?



©Beyond Smart Cities Private Limited

Characteristics and systems of
the building



©Beyond Smart Cities Private Limited

Policies and plans
are statements that
what?



©Beyond Smart Cities Private Limited

Set goals and outline the
implementation of operational
management strategies



©Beyond Smart Cities Private Limited

Performance requirements typically
fall into what two categories of
credits?



©Beyond Smart Cities Private Limited

- Discrete actions
 - Ongoing tracking



©Beyond Smart Cities Private Limited

A gap during the
performance period cannot
be longer than what
duration?



©Beyond Smart Cities Private Limited

One week



©Beyond Smart Cities Private Limited

The most recent period of operations
preceding the certification application is
known as what?



©Beyond Smart Cities Private Limited

The initial performance
period



©Beyond Smart Cities Private Limited

What is the shortest
duration the initial
performance period
can be?



©Beyond Smart Cities Private Limited

Three months



©Beyond Smart Cities Private Limited

What is the shortest duration the
initial performance period can be?



©Beyond Smart Cities Private Limited

Three months



©Beyond Smart Cities Private Limited

What is the longest duration
the initial performance period
can be?



©Beyond Smart Cities Private Limited

No more than 24 months,
except as noted in the credit
requirements



©Beyond Smart Cities Private Limited

All performance periods must
overlap and conclude within how
many days of each other?



©Beyond Smart Cities Private Limited

30



©Beyond Smart Cities Private Limited

What is the intent of the
Alternative Transportation
credit?



©Beyond Smart Cities Private Limited

To reduce pollution and land
development effects from
automobile use for
transportation



©Beyond Smart Cities Private Limited

A maximum of how many points
can be earned under Location &
Transportation?



©Beyond Smart Cities Private Limited

15



©Beyond Smart Cities Private Limited

What should be added together to calculate the number of alternative transportation trips by regular building occupants?



©Beyond Smart Cities Private Limited

- Trips walking
- Trips bicycling
- Trips by other human powered conveyance
- Trips via public transport
- Trips avoided because of telecommuting
- Trips avoided because of compressed work schedule (office spaces only)
- Trips via carpool



©Beyond Smart Cities Private Limited

For the Alternative Transportation credit, regular building occupants must be asked about their modes of transportation to and from the project building over a duration of what?



©Beyond Smart Cities Private Limited

A complete week. This can be a five- or seven-day period, depending on the usage patterns in the building



©Beyond Smart Cities Private Limited

How do you calculate the raw
alternative transportation rate for
regular building occupants?



©Beyond Smart Cities Private Limited

Alternative transportation trips
%
(Total trips - Absences)



©Beyond Smart Cities Private Limited

What is the prerequisite under
Sustainable Sites?



©Beyond Smart Cities Private Limited

Site Management Policy



©Beyond Smart Cities Private Limited

The Site Management Policy must contain what six components for each operational element?



©Beyond Smart Cities Private Limited

- Scope and goals
- Roles and responsibilities
- Standard operating procedures
- Implementation strategies
- Performance measurement and schedule for reassessment
- Quality assurance



©Beyond Smart Cities Private Limited

Any athletic or playing fields within the project boundary must be included in the site management policy for what kind of projects?



©Beyond Smart Cities Private Limited

Schools



©Beyond Smart Cities Private Limited

What is the intent for the
Site Development—
Protect or Restore Habitat
credit?



©Beyond Smart Cities Private Limited

To conserve existing natural areas
and restore damaged areas to
provide habitat and promote
biodiversity



©Beyond Smart Cities Private Limited

How many points are available for on-
site restoration?



©Beyond Smart Cities Private Limited

2



©Beyond Smart Cities Private Limited

How many points are
available for off-site
restoration?



©Beyond Smart Cities Private Limited

1



©Beyond Smart Cities Private Limited

What is the minimum amount of space
required to place native or adapted
vegetation for Protect or Restore Habitat
on-site restoration?



©Beyond Smart Cities Private Limited

5,000 square feet (465 square
meters)



©Beyond Smart Cities Private Limited

What is the minimum percentage of the total site area required for native or adapted vegetation to achieve Protect or Restore Habitat on-site restoration?



©Beyond Smart Cities Private Limited

20%



©Beyond Smart Cities Private Limited

Only when can lawns (turf grasses) qualify as adapted vegetation under the Protect or Restore Habitat on-site restoration credit?



©Beyond Smart Cities Private Limited

Only if they are able to survive without mowing, fertilization, pesticides, and irrigation



©Beyond Smart Cities Private Limited

For Protect or Restore Habitat off-site restoration, what is the financial support equivalent to achieve the credit?



©Beyond Smart Cities Private Limited

\$0.05 per square foot (US\$0.50 per square meter) for the total site area (including the building footprint)



©Beyond Smart Cities Private Limited

What is the intent of the Rainwater Management credit?



©Beyond Smart Cities Private Limited

To reduce runoff volume and improve water quality by replicating the natural hydrology and water balance of the site, based on historical conditions and undeveloped ecosystems in the region



©Beyond Smart Cities Private Limited

For the Rainwater Management credit,
the site needs to manage what
percentage for rainwater for impervious
surfaces of the total site area?



©Beyond Smart Cities Private Limited

25%



©Beyond Smart Cities Private Limited

How many years of historical rainfall
data are required when calculating for
the Rainwater Management credit?



©Beyond Smart Cities Private Limited

10



©Beyond Smart Cities Private Limited

How many points are
available for the Rainwater
Management credit?



©Beyond Smart Cities Private Limited

3



©Beyond Smart Cities Private Limited

What is the intent of the Heat
Island Reduction credit?



©Beyond Smart Cities Private Limited

To minimize effects on
microclimates and human and
wildlife habitats by reducing
heat islands



©Beyond Smart Cities Private Limited

How many points are
available for the Heat
Island Reduction
credit?



©Beyond Smart Cities Private Limited

2



©Beyond Smart Cities Private Limited

How often should all high-
reflectance paving surfaces be
cleaned to maintain good
reflectance?



©Beyond Smart Cities Private Limited

Three



©Beyond Smart Cities Private Limited

For Heat Island Reduction credit
(roof) what are the minimum
percentages of area that should
either be vegetated or covered with
high SRI material?



©Beyond Smart Cities Private Limited

50% vegetated
or
75% high SRI materials



©Beyond Smart Cities Private Limited

For Parking Under Cover option for Heat
Island Reduction credit, what
percentage of the parking must be
covered?



©Beyond Smart Cities Private Limited

50%



©Beyond Smart Cities Private Limited

For Parking Under Cover
option for Heat Island
Reduction credit, what
three different types of
coverings can be used?



©Beyond Smart Cities Private Limited

- Three-year aged SRI of at least 32
- Be a vegetated roof
- Be covered by energy generation systems, such as solar thermal collectors, photovoltaics, and wind turbines



©Beyond Smart Cities Private Limited

What are the four options for the Heat
Island Reduction credit?



©Beyond Smart Cities Private Limited

- Nonroof
- Roof
- Nonroof and roof
- Parking under cover



©Beyond Smart Cities Private Limited

What is CRRC?



©Beyond Smart Cities Private Limited

Cool Roof Rating Council



©Beyond Smart Cities Private Limited

For a building with a certificate of occupancy dated 1995 or later, the baseline of the water use that would result if all fixtures met the code requirements is what?



©Beyond Smart Cities Private Limited

120%



©Beyond Smart Cities Private Limited

For a building with a certificate of occupancy dated before 1995, the baseline of the water use that would result if all fixtures met the code requirements is what?



©Beyond Smart Cities Private Limited

150%



©Beyond Smart Cities Private Limited

What is the Basic indoor water-use reduction calculation?



©Beyond Smart Cities Private Limited

Daily water use for each fixture type =
Fixture flush or flow rate x Duration of
use x User x Uses per person



©Beyond Smart Cities Private Limited

When would the gender ratio affects water usage?



©Beyond Smart Cities Private Limited

When urinals are installed



©Beyond Smart Cities Private Limited

For a female FTE, how many times per day would they use a water closet in a non-residential facility?



©Beyond Smart Cities Private Limited

3



©Beyond Smart Cities Private Limited

For a male FTE, how many times per day would they use a water closet in a non-residential facility (if urinals were also available)?



©Beyond Smart Cities Private Limited

1

©Beyond Smart Cities Private Limited

For a male FTE, how many times per day would they use a urinal in a non-residential facility?



©Beyond Smart Cities Private Limited

2

©Beyond Smart Cities Private Limited

For water calculations, how many seconds would a public lavatory faucet be turned on per use?



©Beyond Smart Cities Private Limited

30 seconds



©Beyond Smart Cities Private Limited

In a residential facility, how many times would a water closet be used per day by FTE?



©Beyond Smart Cities Private Limited

5



©Beyond Smart Cities Private Limited

In a residential facility, how long would a shower be used per FTE per?



©Beyond Smart Cities Private Limited

480 seconds



©Beyond Smart Cities Private Limited

For the Indoor Water Use Reduction prerequisite, projects in unlisted countries must reduce their water usage below the baseline by at least how much?



©Beyond Smart Cities Private Limited

20%



©Beyond Smart Cities Private Limited

What does CEE stand for?



©Beyond Smart Cities Private Limited

Consortium for Energy Efficiency



©Beyond Smart Cities Private Limited

What is the intent of the Building-Level
Water Metering prerequisite?



©Beyond Smart Cities Private Limited

To support water management and
identify opportunities for additional
water savings by tracking water
consumption



©Beyond Smart Cities Private Limited

For the Building-Level
Water Metering
prerequisite, what kind of
water needs to be
measured?



©Beyond Smart Cities Private Limited

Potable water



©Beyond Smart Cities Private Limited

How many points are available for the
Outdoor Water Use Reduction credit?



©Beyond Smart Cities Private Limited

2



©Beyond Smart Cities Private Limited

What are the two
thresholds for the Outdoor
Water Use Reduction
credit?



©Beyond Smart Cities Private Limited

30% reduction from baseline = 1 point
40% reduction from baseline = 2
points



©Beyond Smart Cities Private Limited

What is the intent of the Energy
Efficiency Best Management Practices
prerequisite?



©Beyond Smart Cities Private Limited

To promote continuity of information
to ensure that energy-efficient
operating strategies are maintained
and provide a foundation for training
and system analysis



©Beyond Smart Cities Private Limited

Name six types of
downstream equipment



©Beyond Smart Cities Private Limited

Downstream equipment includes:

- Heat exchangers
- Steam pressure reduction stations
- Pumps
- Valves
- Pipes
- Building electrical services



©Beyond Smart Cities Private Limited

What is CFR?



©Beyond Smart Cities Private Limited

Current facilities requirements



©Beyond Smart Cities Private Limited

What are current facilities requirements?



©Beyond Smart Cities Private Limited

The implementation of the owner's project requirements, developed to confirm the owner's current operational needs and requirements



©Beyond Smart Cities Private Limited

What is the intent of the Minimum Energy Performance?



©Beyond Smart Cities Private Limited

To reduce the environmental and economic harms associated with excessive energy use by establishing a minimum level of operating energy performance



©Beyond Smart Cities Private Limited

For the Minimum Energy
Performance prerequisite, what is
the minimum ENERGY STAR rating
that is acceptable?



©Beyond Smart Cities Private Limited

75



©Beyond Smart Cities Private Limited

What is a district energy system (DES)?



©Beyond Smart Cities Private Limited

A central energy conversion plant and
transmission and distribution system
that provides thermal energy to a
group of buildings (e.g., a central
cooling plant on a university campus).
It does not include central energy
systems that provide only electricity



©Beyond Smart Cities Private Limited

What is downstream equipment?



©Beyond Smart Cities Private Limited

The heating and cooling systems, equipment, and controls located in the project building or on the project site and associated with transporting the thermal energy of the district energy system (DES) into heated and cooled spaces. Downstream equipment includes the thermal connection or interface with the DES, secondary distribution systems in the building, and terminal units



©Beyond Smart Cities Private Limited

What is upstream equipment?



©Beyond Smart Cities Private Limited

A heating or cooling system or control associated with the district energy system (DES) but not part of the thermal connection or interface with the DES. Upstream equipment includes the thermal energy conversion plant and all the transmission and distribution equipment associated with transporting the thermal energy to the project building or site



©Beyond Smart Cities Private Limited

What is the intent of the
Building-Level Energy
Metering prerequisite?



©Beyond Smart Cities Private Limited

To support energy management and
identify opportunities for additional
energy savings by tracking building-
level energy use



©Beyond Smart Cities Private Limited

Why would a utility meter be called a
revenue grade?



©Beyond Smart Cities Private Limited

Because their measurement directly
results in a charge to the customer



©Beyond Smart Cities Private Limited

What is the intent of the
Fundamental Refrigerant
Management prerequisite?



©Beyond Smart Cities Private Limited

To reduce stratospheric ozone
depletion



©Beyond Smart Cities Private Limited

How many points are available for the
Existing Building
Commissioning— Analysis credit?



©Beyond Smart Cities Private Limited

2



©Beyond Smart Cities Private Limited

Commissioning— Analysis credit
and Implementation credit?



©Beyond Smart Cities Private Limited

To use the existing building
commissioning process to improve
building operations, energy, and
resource efficiency



©Beyond Smart Cities Private Limited

How many points are available for the
Existing Building
Commissioning— Implementation
credit?



©Beyond Smart Cities Private Limited

2



©Beyond Smart Cities Private Limited

What is turnkey implementation?



©Beyond Smart Cities Private Limited

The third-party commissioning or retro-commissioning agent or energy management consultant performs the service if the building in-house staff is not available or able to implement the measures



©Beyond Smart Cities Private Limited

What is the intent of the Energy Efficiency Best Management Practices prerequisite?



©Beyond Smart Cities Private Limited

To promote continuity of information to ensure that energy-efficient operating strategies are maintained and provide a foundation for training and system analysis



©Beyond Smart Cities Private Limited

The commercial building industry can greatly reduce waste going to landfills and incinerators by targeting which two large categories?



©Beyond Smart Cities Private Limited

Paper
- Organics



©Beyond Smart Cities Private Limited

For MD credits, If it is not possible to gather to necessary information on purchasing or waste management to document credit achievement, or if the LEED applicant does not have control over the entire building, the project team may exempt up to how much of the building's gross floor area?



©Beyond Smart Cities Private Limited

10%



©Beyond Smart Cities Private Limited

What is the intent of the
Ongoing Purchasing
and Waste Policy prerequisite?



©Beyond Smart Cities Private Limited

To reduce the environmental harm
from materials purchased, used, and
disposed of in the operations within
buildings



©Beyond Smart Cities Private Limited

For the Ongoing Purchasing and Waste
Policy prerequisite, what two things need
to be established?



©Beyond Smart Cities Private Limited

- Environmentally Preferable
Purchasing Policy
– Solid Waste Management Policy



©Beyond Smart Cities Private Limited

What are the six steps to produce a waste audit during the Ongoing Purchasing and Waste Policy prerequisite?



©Beyond Smart Cities Private Limited

- Decide on a strategy
- Collect the waste to be audited
- Sort both waste streams
- Measure landfill or incinerator waste
- Measure diverted waste
- Prepare the waste audit report



©Beyond Smart Cities Private Limited

What is the intent of the Facility Maintenance and Renovation Policy prerequisite?



©Beyond Smart Cities Private Limited

To reduce the environmental harms associated with the materials purchased, installed, and disposed of during maintenance and renovation of buildings



©Beyond Smart Cities Private Limited

What are the three establishments for the Facility Maintenance and Renovation Policy prerequisite?



©Beyond Smart Cities Private Limited

- Purchasing Policy for Maintenance and Renovations
- Waste Management Policy for Maintenance and Renovations
- Indoor Air Quality Policy for Maintenance and Renovations



©Beyond Smart Cities Private Limited

For the Facility Maintenance and Renovation Policy prerequisite, what are the steps for SMACNA control measures?



©Beyond Smart Cities Private Limited

- HVAC protection
- Source control
- Pathway interruption
- Housekeeping
- Scheduling



©Beyond Smart Cities Private Limited

What is meant by base building?



©Beyond Smart Cities Private Limited

Materials and products that make up the building or are permanently and semi-permanently installed in the project (e.g., flooring, casework, wall coverings)



©Beyond Smart Cities Private Limited

In a building, what is meant by structure?



©Beyond Smart Cities Private Limited

Elements carrying either vertical or horizontal loads (e.g., walls, roofs, and floors) that are considered structurally sound and nonhazardous



©Beyond Smart Cities Private Limited

How many points are
available for the
Purchasing—Ongoing
credit?



©Beyond Smart Cities Private Limited

1



©Beyond Smart Cities Private Limited

What is the intent of the Purchasing—
Ongoing credit?



©Beyond Smart Cities Private Limited

To reduce environmental harm from
materials used in the operations and
maintenance of buildings



©Beyond Smart Cities Private Limited

For the Purchasing—Ongoing credit,
the credit lays out the requirements
for purchasing ongoing
consumables. What percentage of
ongoing consumables must meet
these requirements to achieve the
credit?



©Beyond Smart Cities Private Limited

60%



©Beyond Smart Cities Private Limited

What is a remanufactured product?



©Beyond Smart Cities Private Limited

An item that has been repaired or
adjusted and returned to service. A
remanufactured product can be
expected to perform as if it were new



©Beyond Smart Cities Private Limited

What is the intent of the
Purchasing—Lamps credit?



©Beyond Smart Cities Private Limited

To establish and maintain a toxic
material source reduction program to
reduce the amount of mercury
brought onto the building site through
purchases of lamps



©Beyond Smart Cities Private Limited

How many points are available for the
Purchasing—Lamps credit?



©Beyond Smart Cities Private Limited

1



©Beyond Smart Cities Private Limited

A lobby is considered a
nonregularly occupied
space, unless in what kind
of building?



©Beyond Smart Cities Private Limited

Hotel



©Beyond Smart Cities Private Limited

Exceptions to Daylight and Quality
Views are permitted for what kind of
spaces?



©Beyond Smart Cities Private Limited

Auditoriums
- Gymnasiums



©Beyond Smart Cities Private Limited

What is the intent of the
Minimum Indoor Air
Quality Performance
prerequisite?



©Beyond Smart Cities Private Limited

To contribute to the comfort and well-
being of building occupants by
establishing minimum standards for
indoor air quality (IAQ)



©Beyond Smart Cities Private Limited

What are the two cases under the
Minimum Indoor Air
Quality Performance prerequisite?



©Beyond Smart Cities Private Limited

Case 1. Systems Able to Meet
Required Outdoor Airflow Rates
Case 2. Systems Unable to Meet
Required Outdoor Airflow Rates



©Beyond Smart Cities Private Limited

What is the absolute minimum of air flow rate for the Minimum Indoor Air Quality Performance prerequisite?



©Beyond Smart Cities Private Limited

The third-party commissioning or retro-commissioning agent or energy management consultant performs the service if the building in-house staff is not available or able to implement the measures



©Beyond Smart Cities Private Limited

What is the intent of the Energy Efficiency Best Management Practices prerequisite?



©Beyond Smart Cities Private Limited

Not less than 10 cubic feet per minute (5 liters per second) of outdoor air per person



©Beyond Smart Cities Private Limited

What are the three main types of mechanical ventilation systems?



©Beyond Smart Cities Private Limited

- Single-zone system
- 100% outdoor air system
- Multiple-zone recirculating system



©Beyond Smart Cities Private Limited

What is a Single-zone mechanical ventilation system?



©Beyond Smart Cities Private Limited

This system delivers a mixture of outdoor air and recirculated air to only one ventilation zone



©Beyond Smart Cities Private Limited

When would a mechanical ventilation system that is providing air into multiple spaces still be considered a single-zone system?



©Beyond Smart Cities Private Limited

The spaces being ventilated are similar, e.g. occupancy category and occupant density



©Beyond Smart Cities Private Limited

What is a 100% outdoor air mechanical ventilation system?



©Beyond Smart Cities Private Limited

This type of system delivers only outdoor air directly to one or more ventilation zones. The ventilation air cannot contain any recirculated air



©Beyond Smart Cities Private Limited

What is a multiple-zone recirculating mechanical ventilation system?



©Beyond Smart Cities Private Limited

This type of system delivers a mixture of outdoor air and recirculated air to more than one ventilation zone. Typical examples include a constant volume rooftop unit that serves more than one ventilation zone or a VAV system that serves an entire building



©Beyond Smart Cities Private Limited

In terms of air ventilation, what is the critical zone?



©Beyond Smart Cities Private Limited

The critical zone is the zone with the highest proportion of required outdoor air to provided supply air. Critical zones are often densely occupied spaces, such as conference rooms



©Beyond Smart Cities Private Limited

What is the intent of the
Environmental Tobacco
Smoke Control
prerequisite?



©Beyond Smart Cities Private Limited

To prevent or minimize exposure of
building occupants, indoor surfaces,
and ventilation air distribution
systems to environmental tobacco
smoke



©Beyond Smart Cities Private Limited

What are the two options for the
Environmental Tobacco
Smoke Control prerequisite?



©Beyond Smart Cities Private Limited

- No smoking
- Compartmentalisation of smoking areas



©Beyond Smart Cities Private Limited

What is another word for
secondhand smoke?



©Beyond Smart Cities Private Limited

Environmental tobacco smoke (ETS)



©Beyond Smart Cities Private Limited

What is the intent of the Green Cleaning
Policy prerequisite?



©Beyond Smart Cities Private Limited

To reduce levels of chemical,
biological, and particulate
contaminants that can compromise
air quality, human health, building
finishes, building systems, and the
environment



©Beyond Smart Cities Private Limited

What are the two options
for the the Green Cleaning
Policy prerequisite?



©Beyond Smart Cities Private Limited

- In-House Green Cleaning Policy
- Certified Cleaning Service



©Beyond Smart Cities Private Limited

For for the the Green Cleaning Policy
prerequisite - Certified Cleaning Service
option, what certifications of accepted?



©Beyond Smart Cities Private Limited

- GS-42
- CIMS-GB



©Beyond Smart Cities Private Limited

How many points are available
for the Indoor Air Quality
Management Program credit?



©Beyond Smart Cities Private Limited

2



©Beyond Smart Cities Private Limited

What is the intent of the Indoor Air
Quality Management Program credit?



©Beyond Smart Cities Private Limited

To maintain the well-being of
occupants by preventing and
correcting indoor air quality problems



©Beyond Smart Cities Private Limited

What is I-BEAM?



©Beyond Smart Cities Private Limited

Indoor Air Quality Building Education
and Assessment Model



©Beyond Smart Cities Private Limited

For the Indoor Air Quality Management
Program credit, how often should an I-
BEAM audit be conducted?



©Beyond Smart Cities Private Limited

At least once every five years



©Beyond Smart Cities Private Limited

How many points are
available for the Enhanced
Indoor Air Quality
Strategies credit?



©Beyond Smart Cities Private Limited

2



©Beyond Smart Cities Private Limited

What is the intent of the Enhanced
Indoor Air Quality Strategies credit?



©Beyond Smart Cities Private Limited

To promote occupants' comfort, well-
being, and productivity by improving
indoor air quality



©Beyond Smart Cities Private Limited

What are the two options
available for the Enhanced
Indoor Air Quality
Strategies credit?



©Beyond Smart Cities Private Limited

- Entryway system
- Additional enhanced IAQ strategies



©Beyond Smart Cities Private Limited

What is the minimum size for Enhanced
Indoor Air Quality Strategies credit,
entryway systems?



©Beyond Smart Cities Private Limited

10 feet (3 meters) long in the primary
direction of travel



©Beyond Smart Cities Private Limited

For Enhanced Indoor Air Quality Strategies credit, additional enhanced IAQ strategies option, what would the minimum MERV for air cleaning devices need to be?



©Beyond Smart Cities Private Limited

13



©Beyond Smart Cities Private Limited

For Enhanced Indoor Air Quality Strategies credit, additional enhanced IAQ strategies option, CO2 sensors must be placed in rooms larger than what?



©Beyond Smart Cities Private Limited

150 square feet (14 square meters)



©Beyond Smart Cities Private Limited

For Enhanced Indoor Air Quality Strategies credit, additional enhanced IAQ strategies option, CO2 sensors must be set to alarm if concentration in any zone rises more than how much above that corresponding to the minimum outdoor air rate required?



©Beyond Smart Cities Private Limited

15%



©Beyond Smart Cities Private Limited

For Enhanced Indoor Air Quality Strategies credit, additional enhanced IAQ strategies option, how often should CO2 sensors be calibrated?



©Beyond Smart Cities Private Limited

Once every five years or per the manufacturer's recommendation, whichever is shorter



©Beyond Smart Cities Private Limited

How many points are available for the Thermal Comfort credit?



©Beyond Smart Cities Private Limited

1

©Beyond Smart Cities Private Limited

Buildings that share a single location and site attributes to achieve separate LEED certification for each project, building space, or group on the master site should pursue which approach to certifying multiple buildings?



©Beyond Smart Cities Private Limited

Campus Approach



©Beyond Smart Cities Private Limited

What is another word for
secondhand smoke?



©Beyond Smart Cities Private Limited

Environmental tobacco smoke (ETS)



©Beyond Smart Cities Private Limited

What is the intent of the Green Cleaning
Policy prerequisite?



©Beyond Smart Cities Private Limited

To reduce levels of chemical,
biological, and particulate
contaminants that can compromise
air quality, human health, building
finishes, building systems, and the
environment



©Beyond Smart Cities Private Limited