

BEYOND

SMART CITIES

INDOOR ENVIRONMENTAL QUALITY - GREEN

BUILDING TECHNOLOGY TRAINING PROGRAM

FOR GREEN BUILDING AND SUSTAINABILITY SPECIALISTS

KRISHNAJI PAWAR, LEED AP BD+C, GSAS CGP, ISO 14001:2015, GCP

GREEN BUILDING SPECIALIST CURRICULUM

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SUMMARY AND RESOURCES

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SUMMARY



IEQ encompasses indoor air quality (IAQ), which focuses on airborne contaminants, as well as other health, safety, and comfort issues such as aesthetics, potable water surveillance, ergonomics, acoustics, lighting, and electromagnetic frequency levels. IEQ improvements to an existing building can occur at any point during the use of a building.

Know how credit requirements lead to better buildings and a change in the market.

Explore the LEED v4.1 Indoor Environmental Quality credits, which are related to the environment surrounding the building.

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WHO SHOULD ATTEND

Individuals seeking a greater understanding of Indoor Environmental Quality Prerequisite ,credits and Implementation criteria

Indoor Environmental Quality Implementing prerequisites and credit for Green Buildings seeking LEED Certification

Explore the LEED v4.1 Indoor Environmental Quality credits, which are related to the environment surrounding the building and emphasize the importance of local ecosystems and holistically integrating the site with its surroundings.

The program will address each prerequisite and credit on a credit-by-credit basis, including technical prerequisites and effective tactics for attaining them.



INDOOR ENVIRONMENTAL QUALITY



The Indoor Environmental Quality (EQ) category rewards decisions made by project teams about indoor air quality and thermal, visual, and acoustic comfort. Green buildings with good indoor environmental quality protect the health and comfort of building occupants. High-quality indoor environments also enhance productivity, decrease absenteeism, improve the building's value, and reduce liability for building designers and owners. 1 This category addresses the myriad design strategies and environmental factors—air quality, lighting quality, acoustic design, control over one's surroundings—that influence the way people learn, work, and live



CRITERIA IN THIS CATEGORY

IEQ PR MINIMUM INDOOR AIR QUALITY PERFORMANCE

IEQ PR ENVIRONMENTAL TOBACCO SMOKE CONTROL

IEQ CR ENHANCED INDOOR AIR QUALITY STRATEGIES

IEQ CR LOW-EMITTING MATERIALS

IEQ CR CONSTRUCTION INDOOR AIR QUALITY MANAGEMENT PLAN

IEQ CR INDOOR AIR QUALITY ASSESSMENT / THERMAL COMFORT

IEQ CR INTERIOR LIGHTING / DAYLIGHT / QUALITY VIEWS / ACOUSTIC PERFORMANCE



MAXIMUM POSSIBLE CREDITS : 2 P / 16 C

WHY IS THIS IMPORTANT FOR BUILDINGS?

Since the people costs of salary and benefits often exceed the running costs of an office building, strategies that improve the health and productivity of employees over the long term can yield a high rate of return.

Typical IEQ objectives include providing inhabitants with interesting and comfortable settings and lowering the risk of building-related health concerns.

To create their buildings places where people feel good and perform well, project teams must strike a balance between selecting techniques that encourage efficiency and conservation and addressing the needs of inhabitants and promoting their well-being.

Ideally, the selected tactics accomplish both objectives: solutions that preserve energy, water, and materials should also contribute to an enjoyable interior environment.



STRATEGIES IMPROVING OCCUPANTS' COMFORT AND CONTROL



- ☑ Use daylighting.
- ☑ Install operable windows.
- ☑ Give occupants temperature and ventilation control.
- ☑ Give occupants lighting control.
- ☑ Conduct occupant surveys.
- ☑ Provide ergonomic furniture.
- ☑ Include appropriate acoustic design.

RESOURCES



<https://www.usgbc.org/resources>

<https://knowledgelab.beyondsmartcities.in/>

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