
BEYOND
SMART CITIES
welcome to
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IGBC ACCREDITED PROFESSIONAL

IGBC AP OVERVIEW

ONLINE TRAINING BY KRISHNAJI PAWAR

LEED AP(BD+C),GSAS CGP,GCP,ISO 14001

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MODULE 1

Introduction and Course Outline

KRISHNAJI PAWAR - CEO & FOUNDER

LEED AP(BD+C),GSAS CGP,GCP,ISO 14001

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IGBC ACCREDITED PROFESSIONAL OVERVIEW

Beyond Smart Cities provides a comprehensive IGBC AP package, simplifying the process of becoming a certified professional, covering exam preparation, sustainable design, and certification advantages.

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BRIEF ABOUT ME

Krishnaji PAWAR

CEO & FOUNDER



Krishnaji Pawar is founder and CEO of Beyond Smart Cities. Before being named CEO in January 2020, Krishnaji held leadership roles at Beyond Smart Cities in both Sustainability ,Energy & Environmental Consultancy.

Specialized in developing sustainable design strategies for Green Building Certification Systems (LEED, GSAS, etc.), Energy & Water Conservation, Commissioning, Environmental Impact Assessment & Environmental Management Systems.

Currently responsible for 3,787 million square feet Green Building /Energy modeling Consulting since January 2008 in UAE, India and Qatar.

Learning Objectives

- Introduction
- Knowing the Process of IGBC Green Credentialing
- Basics of Green Building Design and Construction
- Organizational Fundamentals
- IGBC Green Building Rating System
- Reasons to Become IGBC Accredited
- Getting an IGBC AP credential
- Summary and Resources
- IGBC AP Practice Test: Test Your Knowledge!

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INTRODUCTION

- Simplifies the journey to becoming a IGBC Accredited Professional.
- Provides comprehensive exam preparation for the IGBC Accredited Professional Exam.
- Includes understanding of the IGBC Green Credentialing Process, Basic Concepts of Sustainable Design, organizational fundamentals, IGBC Green Green Building Rating System, and Advantages of IGBC Green Certification.
- Includes a comprehensive study roadmap for exam preparation.
- Allows for effective tailoring of study habits to personal needs.

GREEN BUILDING REVOLUTION

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- The U.S. Green Building Council (USGBC) was founded in 1993 to promote green building.
- The LEED Green Building Rating System was launched in 2000 to measure green buildings.
- Green buildings reduce carbon emissions by about 40% compared to conventional buildings.
- The Green Building Rating System challenges all sectors to learn more about limiting emissions from new buildings.
- The movement emphasizes on design for higher performance, not just design for the sake of design.
- The goal is to create a planet powered by renewable energy, populated by sustainable communities housed in green buildings, driven by clean, green innovation.



THE GREEN BUILDING REVOLUTION: A HISTORICAL OVERVIEW

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- Montreal Protocol in the 1980s limited chlorinated fluorocarbons' harmful effects on the ozone layer.
- Brundtland Commission defined sustainability in 1987, emphasizing present generations' needs without compromising future generations.
- U.S. Green Building Council (USGBC) formed in 1993, influenced by Earth Day and U.N. Conference on Environment and Development.

THE GREEN BUILDING REVOLUTION: A HISTORICAL OVERVIEW +

- Kyoto Protocol established in the late 1990s, regulating global greenhouse gas emissions.
- LEED Green Building Rating System introduced by USGBC in 2000.
- Green building revolution aims for responsible occupants, community infrastructure, natural resources, and global environment.

IGBC Leads Indian Green Building Movement

- Raised stakeholder awareness since 2001.
- Contributed to 3.84 billion sq.ft. green buildings.
- Transformed green building materials and technologies market.



GREEN BUILDING MARKET OVERVIEW

- Arab engineering Bureau reports growing acceptance of green buildings due to climate change information.
- Green buildings offer immediate operational, marketing, and design savings, and long-term energy security.
- Market includes commercial, institutional, residential, public, educational, nonprofit, and corporate owners.



GREEN BUILDING MARKET OVERVIEW +

- Green buildings found in various locations across the US and Canada.
- Projects range from a few thousand to over one million square feet.
- LEED-registered public-sector and nonprofit green buildings in the U.S. are approaching 10% of total annual new construction value.
- IGBC, India's premier certification body, oversees over 11,053 projects with a green footprint of over 10.27 billion sq.ft, with 3,653 certified and operational projects.



WHAT IS A GREEN BUILDING?

A green building is a high-performance property designed to reduce its environmental impact and human health through better siting, design, material selection, construction, operation, maintenance, removal, and reuse. However, a building cannot be considered a green building if it is not rated and certified by an independent third party. Building owners and designers should consider the standards they are measuring their design against.



GREEN BUILDING DEFINITION AND CERTIFICATION

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- A green building is a high-performance property designed to reduce environmental and health impacts.
- It uses less energy and water, and minimizes the life-cycle environmental impacts of materials.
- Green buildings are rated and certified by an independent third party, ensuring an open process for rating system creation and maintenance.
- Building owners and designers should follow IGBC GREEN but apply for certification of the final building.
- "Sustainable design" should be measured against specific standards and proven.



IMPACT OF BUILDINGS ON ENVIRONMENT

- Buildings contribute to 12% of freshwater use, 30% of raw materials, 30% of greenhouse gas emissions, 45-65% of landfill waste, 31% of solid waste, and 7% of electricity consumption.
- Green buildings offer 30% energy, 30-50% water, 35% reduction in carbon emissions, and 50% reduction in construction waste.
- Governments and universities often design green buildings with a long-term perspective.
- Integrated design is used for high-performing green buildings on conventional budgets.





IGBC AP CREDENTIALS



- Credential for professionals with at least 2 years of work experience in green building projects.
- Tests knowledge on green building design and construction.
- Qualified individuals can participate in projects under IGBC rating programmes.
- Projects achieve one credit point under 'Innovation and Design' category with IGBC AP involvement.
- Eligible for professionals with at least 2 years of building industry experience.

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IGBC AP CREDENTIALS +



- Offers by MeritTrac Services Private Limited, India's largest skills assessment company.
- Conducts 4 million exams and assesses 1.8 million candidates annually.
- State-of-the-art centres across India for high-stakes exams.
- Results reported to candidates immediately upon exam completion.

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VALIDATE YOUR SUSTAINABILITY KNOWLEDGE.



- Validates sustainability knowledge: Green jobs demand certification.
- Enhances green building knowledge: Exam provides fundamental understanding of transportation, energy, water, and air quality.
- Joins the global network: Earning an IGBC AP credential connects you with a national and international community of sustainability professionals.

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WELCOME TO BEYOND SMART CITIES

Beyond Smart Cities is the world's 1st Green Technology Marketplace, connecting millions of Sustainability Specialists, Green Building Specialists, Energy Specialists, Commissioning Specialists, Environment Specialists, Health & Safety Specialists, Fire Safety Specialists, Climate Change Specialists & Green Products/Technology Manufacturers with independent talent around the globe.

Our mission is to build and support a global community of experts with the highest professional standards in sustainability, green building, energy, commissioning, environment, health & safety, fire safety, climate change, GHG accounting, carbon auditing, and GHG emissions management.

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THANK YOU

