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**BEYOND SMART CITIES**

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# HIGH-PERFORMANCE BUILDING DESIGN PROFESSIONAL - HBDP OVERVIEW

ONLINE PROFESSIONAL COURSES LED BY THE  
WORLD'S TOP SPECIALISTS

ONLINE TRAINING BY KRISHNAJI PAWAR

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

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# BEYOND

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MODULE  
**8**

## Summary and Resources

KRISHNAJI PAWAR - CEO & FOUNDER

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

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# Learning Objectives

- Introduction
- Getting Started with HBDP
- Sustainability Concepts
- HVAC Processes
- Sustainable Processes
- Environmental Improvement Programs and Rating Systems
- Certification for High-Performing Building Specialists
- **Summary and Resources**
- **High-Performance Building Design Professional - HBDP Practice Test V.4.1**



## INTRODUCTION

- The HBDP Overview training program provides essential skills, knowledge, tools, credentials, and 100 practice exam questions for High-Performance Building Design (HBDP Knowledge Domain).
- The HBDP certification, an ANSI-accredited program under ISO/IEC 17024 (#1139), validates competency to design and integrate sustainable HVAC&R systems into high-performing buildings.
- Key domains include energy analysis, indoor and site environments, controls and monitoring, benchmarking with performance metrics, water conservation, commissioning in sustainable construction, energy and material use, and management.



# HIGH-PERFORMANCE BUILDING DESIGN PROFESSIONAL - HBDP OVERVIEW

- The program supports the mission of the American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE), validating job competency in internationally recognized technical information.
- The program aims to equip participants with the foundational understanding, principles, sustainability concepts, HVAC processes, environmental improvement programs, environmental rating systems, and resources needed to design high-performance buildings effectively.
- The HBDP Practice Test V.4.1\_Test Your Knowledge!
- High-Performance Building Design Professionals' Role: Understand development practices, policies, technical requirements, program analysis, and financial assessments.



# 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.



# 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.



# RESOURCES

- **ASHRAE GreenGuide: The Design, Construction, and Operation of Sustainable Buildings**
- **Advanced Energy Design Guide for Small to Medium Office Buildings: Achieving 50% Energy Savings Toward a**
- **Net Zero Energy Building**
- **Advanced Energy Design Guide for Small Retail Buildings: Achieving 30% Energy Savings Toward a Net Zero**
- **ASHRAE Guideline 0: The Commissioning Process**
- **ASHRAE Standard 55: Thermal Environmental Conditions for Human Occupancy**
- **ANSI/ASHRAE Standard 62.1: Ventilation for Acceptable Indoor Air Quality**
- **ANSI/ASHRAE/IESNA Standard 90.1 (I-P): Energy Standard for Buildings Except Low-Rise Residential Buildings**
- **ANSI/ASHRAE/IESNA Standard 90.1 (SI): Energy Standard for Buildings Except Low-Rise Residential Buildings**
- **<https://www.ashrae.org/professional-development/ashrae-certification/certification-types/hbdp-high-performance-building-design-professional-certification>**
- **<https://learn.beyondsmartcities.in/courses/>**





# CONTACT US



+91 6363032722



info@beyondsmartcities.in



learn.beyondsmartcities.in



#55,HMR Layout ,Bengaluru ,India



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