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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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MODULE

2

Getting Started with High-Performance Building Design Professional - HBDDP

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HIGH-PERFORMANCE BUILDING DESIGN PROFESSIONAL HBDP OVERVIEW

The HBDP certification certifies the design and integration of sustainable HVAC&R systems into high-performing buildings, covering key domains such as energy analysis, indoor and site environment, controls, monitoring, benchmarking, water conservation, commissioning, energy and material use, and management.

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

- ANSI-accredited program under ISO/IEC 17024 (#1139).
- Validates competency in designing and integrating sustainable HVAC&R systems in high-performing buildings.
- Benefits high-performance building design professionals: enhanced reputation, career opportunities, and enhanced recognition.
- Ensures fairness and validity under ISO/IEC 17024.
- Employers support AHRAE HBDP for recruitment, reputation, compliance, professional development, and job satisfaction.

HIGH-PERFORMANCE BUILDING DESIGN PROFESSIONAL SKILLS

- Analyze renewable energy sources.
- Evaluate envelope decisions on building pressurization.
- Apply air quality strategies.
- Perform energy compliance modeling.
- Develop strategies to reduce potable water consumption.
- Establish O&M procedures and operator training.
- Evaluate alternative HVAC systems.
- Implement maintenance plan and commissioning procedures.
- Integrate controls with equipment and systems.
- Model energy consumption.
- Normalize performance data and trends.



EARNING CRITERIA FOR HBDP

- Complete application and pass the HBDP Certification Exam.
- Eligibility requirements: meet one of four possible education requirements.
- Completion of one of four combinations of high-performance building design work experiences.
- Adherence to a Code of Ethics: uphold reasonable industry standard of care, prioritize public health and safety, and work in compliance with laws and regulations.
- Pass a proctored, closed book/closed notes, 2.5-hour, 100-question, multiple-choice exam with a pass rate of 63%.





EARN AN HBDDP CERTIFICATION

The High-Performance Building Design Professional (HBDDP) certification program supports this Mission by validating job competency as understood in internationally recognized technical information, reflecting the best practices that lead our industry.

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HIGH-PERFORMANCE BUILDING DESIGN PROFESSIONALS' ROLE IN ARCHITECTURE AND CONSTRUCTION

- High-performance building design professionals optimize the design, construction, and operation of buildings to maximize energy efficiency, indoor air quality, and overall performance.
- They can reduce energy consumption by incorporating energy-efficient strategies like proper insulation, efficient heating and cooling systems, and use of renewable energy sources.
- Daylighting strategies, such as careful positioning of windows, skylights, and light shelves, can maximize natural light levels and reduce energy consumption.
- They can improve indoor air quality by utilizing proper ventilation systems, low-emission materials, and moisture control strategies.



HBDP'S ROLE IN ARCHITECTURE AND CONSTRUCTION



- Low-VOC paints and finishes can minimize indoor air pollution and create a healthier indoor environment.
- They also focus on optimizing water usage, waste management, and overall building performance.
- They can suggest the installation of low-flow toilets, faucets, and showerheads to minimize water usage and implement a greywater recycling system.
- Working with high-performance building design professionals is essential for achieving sustainable and high-performing buildings in the construction industry.

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