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SMART CITIES



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HEALTHCARE FACILITY DESIGN PROFESSIONAL HFDP 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

7

Summary and Resources

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Learning Objectives

- Introduction and Course Outline
- General Elements of Healthcare
- Health and built environment
- Health Care HVAC System Design Standards and Guidelines
- Certified Healthcare Facility Design Specialist Certification
- Testing, Balancing, and Commissioning
- Summary and Resources
- HFDP Practice Test V.4.1_Test Your Knowledge



INTRODUCTION

- The ASHRAE Healthcare Facility Design Professional (HFDP) training program offers professionals skills, knowledge, tools, credentials, and 100 practice test questions.
- The program is part of the ASHRAE's commitment to advancing the arts and sciences of heating, ventilation, air conditioning, and refrigeration.
- The program confirms job expertise in internationally recognized technical material, reflecting best practices in the industry.
- The program offers online courses on health and the built environment, healthcare HVAC system design standards, sustainable health care today, carbon reduction, and HFDP exam practice questions.
- Employers support the ASHRAE HFDP for recruitment, reputation enhancement, professional development goals, job satisfaction, and retention.

CERTIFIED LIGHTING EFFICIENCY PROFESSIONAL (CLEP) OVERVIEW TRAINING PROGRAM OVERVIEW



- Objectives include enhancing professional standards in lighting efficiency management, promoting professional development, identifying individuals with acceptable knowledge of lighting efficiency principles and practices, and awarding special recognition to professionals demonstrating high competence and ethical fitness.
- Role of Certified Lighting Efficiency Specialist: Understanding a building's lighting requirements, measuring, verifying, evaluating projects, comparing savings against other energy efficiency projects, and identifying ROI.

SUSTAINABLE HEALTH CARE TODAY

- Sustainable health care integrates environmental, social, and economic considerations into health service design, delivery, and financing.
- It aims to ensure health services are effective, efficient, equitable, and environmentally responsible.

Core Principles of Sustainable Health Care

- **Environmental Stewardship:** Minimizes the environmental footprint through practices like reducing carbon emissions, managing waste effectively, and using sustainable materials.
- **Social Equity:** Ensures equitable access to health services for all individuals, addressing social determinants of health.
- **Economic Viability:** A sustainable health care system must be economically viable over the long term.



CURRENT CHALLENGES +

- Resource Constraints: Financial pressures can impede investments in sustainable practices.
- Regulatory Barriers: Healthcare regulations often prioritize immediate patient care outcomes over long-term sustainability initiatives.
- Cultural Resistance: Shifting entrenched practices and beliefs within health care organizations can be difficult.



INNOVATIVE STRATEGIES +

- Green Health Care Initiatives: Adopting environmentally friendly practices like incorporating green building standards into construction and renovation projects.
- Integrated Care Models: Bringing together multiple health services to provide comprehensive care.
- Community Engagement: Engaging communities in health care decision-making to foster ownership and accountability.
- Telehealth and Digital Health Solutions: Providing a sustainable alternative to in-person visits.





Healthcare Facility Design Professional - HFDP Exam Question Bank

- Assess knowledge before final exam.
- Test questions similar to actual exam questions.
- Over 500+ questions in FIVE mock exams ranging from easy to expert.
- Understand reasoning behind each question and answer for restudy or revision.
- Cover HFDP Exam Knowledge Domains.
- Familiarize with HFDP knowledge domain and terminology.
- Ensure exam pass on first attempt.
- Includes 234+ key terminology and study flash cards.
- Includes new HFDP_Engineering and HVAC Design Equations.



RESOURCES

- ASHRAE GreenGuide: The Design, Construction, and Operation of Sustainable Buildings
- ASHRAE HVAC Design Manual for Hospitals and Clinics
- ASHRAE Guideline 12 Minimizing the Risk of Legionellosis Associated with Building Water Systems
- ASHRAE Standard 15 Safety Standard for Refrigeration Systems
- ASHRAE Standard 62.1 Ventilation for Acceptable Indoor Air Quality
- ASHRAE Standard 90.1 Energy Standard for Buildings Except Low-Rise Residential Buildings (SI)
- ASHRAE Standard 90.1 Energy Standard for Buildings Except Low-Rise Residential Buildings (I-P)
- ASHRAE Standard 170 Ventilation of Health Care Facilities
- ASHRAE Standard 188 Legionellosis: Risk Management for Building Water Systems
- <https://learn.beyondsmartcities.in/courses/>





WELCOME TO BEYOND SMART CITIES

The organization promotes scientific and educational interest in sustainability, energy, the environment, and the commissioning industry through its networking and outreach efforts and educational and professional certification programs.

The organization offers a wide array of services, which include developing new green building rating programs, green product rating programs, certification services, and green building technology training programs.



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THANK YOU





GREEN BUILDING SPECIALIST
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“SUSTAINABLE”... TAKE A FEW QUIET MOMENTS. THINK ABOUT WHAT THIS TERM MEANS TO YOU—THEN CONSIDER TECHNOLOGY FOR SUSTAINABLE DEVELOPMENT!