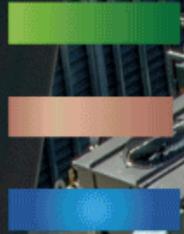




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CERTIFIED HVAC DESIGNER CHD OVERVIEW

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

8

Summary and Resources

KRISHNAJI PAWAR - CEO & FOUNDER

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

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Learning Objectives

- Introduction
- HVAC Fundamentals
- The Air-Conditioning Process
- HVAC System Concepts and Process
- HVAC Systems Design
- Engineering, Economics, and Design Decision-Making
- Certified HVAC Designer (CHD) Specialty Certification
- Summary and Resources
- Certified HVAC Designer - CHD Practice Test V.4.1



INTRODUCTION

- The program teaches participants to design foundational HVAC systems for building or project requirements.
- The CHD certification verifies an individual's ability to design HVAC systems that align with building or project requirements.
- Key domains of the CHD certification include system design, design calculations, procedural, and coordination.
- The certification aligns with ISO/IEC 17024 standards, demonstrating competency in system design, design calculations, procedural, and coordination.
- Certified HVAC designers manage building modifications, calculate heat loss, determine ventilation rate requirements, design HVAC systems, prepare flow diagrams, schematics, and plan drawings, and review shop drawings for potential obstructions and equipment submittals.



CHD CERTIFICATION OVERVIEW

- Validates competency in designing HVAC systems to meet building/project requirements.
- Skills include load calculations, equipment selection and sizing, mechanical equipment room design, duct and piping design, and layout.
- Validates competency in system design, design calculations, procedural, and coordination.
- Skills include adjusting HVAC requirement estimates, calculating building load heat loss and gain, calculating external static and total pressures for air distribution units, and determining ventilation rate requirements.
- Skills include preparing ductwork and piping flow diagrams, HVAC schematics, plan drawings, and selecting HVAC systems based on calculations.
- Eligibility criteria include meeting education requirements and work experience, upholding a Code of Ethics, and passing a proctored, closed book/closed notes, 100-question, multiple-choice exam.



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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.

RESOURCES

- Certification Study Guide: Certified HVAC Designer (CHD)
- ASHRAE Handbooks: Fundamentals, HVAC Applications, and HVAC Systems and Equipment
- ANSI/ASHRAE Standard 15: Safety Standard for Refrigeration Systems and Designation and Classification of Refrigerants
- ANSI/ASHRAE Standard 55: Thermal Environmental Conditions for Human Occupancy
- ANSI/ASHRAE Standard 62.1: Ventilation for Acceptable Indoor Air Quality
- ANSI/ASHRAE/IES Standard 90.1 & User's Manual
- ANSI/ASHRAE/IES Standard 202: Commissioning Process for Buildings and Systems
- ASHRAE Standard 209: Energy Simulation Aided Design for Building Except Low-Rise Residential Buildings
- Guideline 36: High-Performance Sequences of Operation for HVAC Systems
- International Mechanical Code
- ASHRAE Principles of Heating, Ventilating, and Air Conditioning
- Air-Conditioning System Design Manual, 3rd Edition
- <https://learn.beyondsmartcities.in/courses/>





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