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ADVANCED ENERGY MODELING FOR LEED

FOR ENERGY AND GREEN BUILDING SPECIALISTS

KRISHNAJI PAWAR, LEED AP BD+C, GSAS CGP, ISO 14001:2015, GCP

ENERGY SPECIALIST CURRICULUM

ENERGY MODELING SPECIALIST

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INTRODUCTION AND COURSE OUTLINE

FOR ENERGY AND GREEN BUILDING PROFESSIONALS

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CEO & FOUNDER, BEYOND SMART CITIES



KRISHNAJI PAWAR

SUSTAINABILITY SPECIALIST

ONLINE TRAINING COURSE

ADVANCED ENERGY MODELING FOR LEED TRAINING PROGRAM

ENERGY SPECIALIST CURRICULUM

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LEARNING OBJECTIVES



- Learn Energy Codes and Referenced Standards
- Understand Energy Modeling Requirements
- LEED Interpretations - Energy Modeling Perspective
- Simulation Software and Key Output Report
- Energy Performance Path
- Exceptional Calculations
- Renewable Power
- Annotated LEED Credit Form- Sample
- The Process of Carrying out Energy Simulation



WHO IS THIS COURSE FOR?

This course is designed to help Energy Professionals, including Energy Managers, Energy Engineers, Facility and Business Managers, Green Building Engineers, Green Building Professionals, Utility Officials, Consultants, Contractors, Financial Officers, and Energy Service Company Professionals become more aware of and effective at identifying and implementing the best energy management strategies.

Building Professionals who want to learn more about Energy Management ,LEED Energy Modeling and Energy Efficiency.

For those who are starting their journey in the Energy Management ,Green Building Specialist and Energy Efficiency Profession.



KEY TAKEAWAYS

Energy Performance Compliance Path Requirements, focuses on the requirements of the credit and provides guidance on how to use the standards and applicable LEED Interpretations. It also introduces common energy simulation software programs used for documenting LEED compliance and describes their output reports.

Energy Performance Compliance Path Documentation and Review, provides detailed guidance on documenting and reviewing credits. Common errors made in LEED EA Credit 1 applications and quality control guidance relevant to both reviewers and applicants are also discussed.

A typical Energy Systems and Scenarios, provides guidance on the variances presented by atypical scenarios, such as existing building expansions, multiple buildings on campus, exceptional calculations, district energy systems (DES), and combined heat and power (CHP) plants.



ADVANCED ENERGY MODELING FOR LEED +

The course consists of 15 lectures and 10 sections. Learner's may find certain sections in the training course particularly useful based on their degree of familiarity with the referenced standards, such as ASHRAE 90.1-2016, and their energy modeling skills. Critical tools and guidance for advanced users include the following:

- ✓ a comparative summary of energy modeling requirements for baseline and proposed design models for ASHRAE Standard 90.1-2016, Appendix G, and California Title 24-2016
- ✓ critical steps recommended for verification of energy savings for EA Prerequisite : and EA Credit .
- ✓ input quality control checklist, with common ASHRAE 90.1-2016 errors / input-output consistency checklist



ADVANCED ENERGY MODELING FOR LEED - STRUCTURE

- ✓ Energy Performance Compliance Path Requirements, focuses on the requirements of the credit and provides guidance on how to use the referenced standards and applicable LEED Interpretations. It also introduces common energy simulation software programs used for documenting LEED compliance and describes their output reports.
- ✓ Energy Performance Compliance Path Documentation and Review, provides detailed guidance on documenting and reviewing credits. Common errors made in LEED EA Credit : Optimize Energy Performance applications and quality control guidance relevant to both reviewers and applicants are also discussed.
- ✓ Atypical Energy Systems and Scenarios, provides guidance on the variances presented by atypical scenarios, such as existing building expansions, multiple buildings on campus, exceptional calculations, district energy systems (DES), and combined heat and power (CHP) plants.
- ✓ Related Credits, addresses the review and documentation of two credits directly related to EA Credit : Optimize Energy Performance: EA Credit : Renewable Energy; and EA Credit : Grid Harmonization .



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THANK YOU



**THE WORLD'S 1ST GREEN TECHNOLOGY
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