

BEYOND

SMART CITIES



ELECTRICAL POWER SYSTEMS - CEM

REFRESHER TRAINING

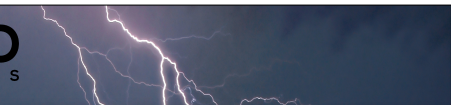
KRISHNAJI PAWAR, LEED AP BD+C, GSAS CGP, ISO 14001:2015, GCP

FOR ENERGY MANAGEMENT AND EFFICIENCY PROFESSIONALS



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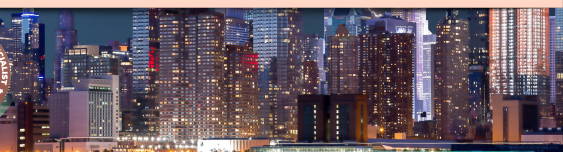


SUMMARY AND RESOURCES

FOR ENERGY PROFESSIONALS

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

ENERGY SPECIALIST CURRICULUM



SUMMARY





Learn basics about Electrical Power Systems, Transformer and Harmonics

Understand Electrical Basics (DC/AC, Single and 3-Phase Power)

Resistive and Inductive Loads, Power Factor

Voltage Imbalance, Grounding and Harmonics

Estimating Savings from Power Factor Improvement

Important 3-phase Motor Equations and Estimating Power Consumption

Electric motors, Factors affecting motor performance, Energy saving opportunities with energy efficient motors.

KEY TAKEAWAYS

Work through practical examples to demonstrate the topics and procedures covered.

Review the various areas of the Body of Knowledge - Electrical Power Systems with AEE's / BEE's certification exam perspective.

This training program helps to prepares attendees to take the Certified Energy Manager® (CEM®) exam.

One of the most globally respected certifications in the field of energy efficiency and energy management. Gain industry and peer recognition, bring value to your organization and propel your career forward.

Get CERTIFIED ENERGY MANAGER - CEM Credentials in your CV

BODY KNOWLEDGE

- ✓ Codes and Standards -----3%-5%
- ✓ Energy Accounting and Economics -----6% -10%
- ✓ Energy Audits and Instrumentation -----8% -12%
- ✓ Electrical Power Systems and Motors -----9%-13%
- ✓ HVAC Systems-----9% - 13%
- ✓ Industrial Systems -----6% - 8%
- ✓ Building Envelope-----3% - 5%
- ✓ CHP Systems and Renewable Energy -----4%- 6%
- ✓ Fuel Supply and Pricing -----2%- 4%
- ✓ Building Automation and Control Systems ----7%- 11%
- ✓ Thermal Energy Storage Systems -----2%- 4%
- ✓ Lighting Systems -----6% - 8%
- ✓ Boiler and Steam Systems -----3% - 5%
- ✓ Maintenance and Commissioning -----8%- 12%
- ✓ Energy Savings Performance Contracting and Measurement & Verification --- 3%- 5%

Resources

Electrical energy conservation modules of AIP-NPC, Chennai

<https://www.aeecenter.org/>

<https://knowledgelab.beyondsmartcities.in/>