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# CERTIFIED LIGHTING EFFICIENCY PROFESSIONAL CLEP 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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**7**

# Certified Lighting Efficiency Specialist Certification

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# CERTIFIED LIGHTING EFFICIENCY PROFESSIONAL CLEP OVERVIEW

The Certified Lighting Efficiency Professional (CLEP) designation is a professional certification that signifies a high level of expertise in lighting efficiency. It is administered by the Association of Energy Engineers (AEE), an organization committed to promoting energy efficiency and sustainability. The CLEP certification helps distinguish individuals who have demonstrated proficiency in energy-efficient lighting technologies and practices, enhancing their credibility and marketability in the workforce.

# Learning Objectives

- Introduction and Course Outline
- Quality Lighting for High-Performance Buildings
- LED Technology & its Operating Characteristics
- Lighting Quantity and Quality Fundamentals
- Lighting and control system maintenance and commissioning.
- Environmental Concerns in Lighting Technology
- **Certified Lighting Efficiency Specialist Certification**
- Summary and Resources
- CLEP Practice Test V.4.1\_Test Your Knowledge



## INTRODUCTION

- A professional certification indicating high expertise in lighting efficiency.
- Administered by the Association of Energy Engineers (AEE).
- Enhances credibility and marketability in the workforce.
- Eligible candidates must have education and professional experience in energy management, lighting design, or related fields.
- Examination process covers fundamentals of lighting technology, design principles, energy-efficient lighting systems, controls and automation, and codes and standards.
- Core competencies include Lighting Fundamentals, Lighting Design, Energy Efficiency Technologies, Codes and Standards, and Economic Analysis.
- CLEP-certified professionals must differentiate between incandescent, fluorescent, and LED technologies, understand latest advancements, and stay updated on national and local codes.
- Continuing education and professional development are often required to maintain the certification.

# CERTIFIED LIGHTING EFFICIENCY SPECIALIST (CLES) CERTIFICATION OVERVIEW

- The CLES certification is a professional credential indicating expertise in lighting efficiency.
- It equips professionals with the knowledge and skills to optimize lighting systems in residential, commercial, and industrial settings.

The primary objectives of the CLES certification are:

- Knowledge Acquisition: Understanding of lighting technologies, energy efficiency principles, and regulatory landscape.
- Practical Application: Developing the ability to assess existing lighting systems, identify improvement opportunities, and implement solutions that enhance efficiency.
- Professional Credibility: Enhancing the professional profile of individuals in the lighting industry, facilitating career advancement and recognition.
- Sustainability and Compliance: Instilling a commitment to sustainable practices in lighting design and usage, aligned with local, national, and international energy efficiency standards.





# CERTIFIED LIGHTING EFFICIENCY SPECIALIST (CLES) CERTIFICATION PROCESS

- Eligibility Requirements: Candidates must possess a background in a related field, complete a structured training program, pass a comprehensive examination, and engage in ongoing education.



## Value of CLES Certification

- Career Advancement: Certified professionals often stand out in the job market.
- Networking Opportunities: Certification can facilitate connections with other professionals in the industry, fostering collaboration and knowledge exchange.
- Enhanced Skills: The training and knowledge gained through the certification process equip individuals to address complex lighting challenges, driving innovations that contribute to sustainable practices.

# THE CLEP BODY OF KNOWLEDGE PREPARATION FOR THE CLEP CERTIFICATION EXAM

| Body of Knowledge   | Percent of Exam |
|---|-----------------|
| Language of Light and Lighting Efficiency                                       | 8 – 12%         |
| Lighting Quantity and Quality Fundamentals                                      | 8 – 12 %        |
| Color, Visibility and Health  | 8 – 12 %        |
| Traditional Light Source Lamps and Ballasts and their Operating Characteristics | 4 – 6 %         |
| LED Technology and its Operating Characteristics                                | 8 – 12 %        |
| Lighting Maintenance and Environmental Safety                                   | 4 – 6 %         |
| Lighting Controls   | 8 – 12 %        |
| Lighting Audits   | 4 – 6 %         |
| Lighting Photometrics, Reports and IES files                                    | 8 – 12 %        |
| Lighting Calculations   | 12 – 18 %       |
| Financial Analysis Metrics and Calculations                                     | 8 – 12 %        |





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