

BEYOND

SMART CITIES

CERTIFIED INDUSTRIAL ENERGY PROFESSIONAL

CIEP TRAINING PROGRAM

FOR INDUSTRIAL ENERGY SPECIALISTS

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

ENERGY SPECIALIST CURRICULUM

CERTIFIED INDUSTRIAL ENERGY SPECIALIST

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INTRODUCTION AND COURSE OUTLINE

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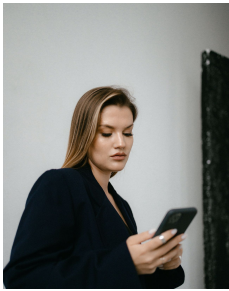
ONLINE TRAINING PROGRAM

CERTIFIED INDUSTRIAL ENERGY PROFESSIONAL - CIEP TRAINING PROGRAM

ENERGY SPECIALIST CURRICULUM

WWW.KRISHNAJIPAWAR.IN

LEARNING OBJECTIVES



Fundamentals to Industrial Energy
Audits and Energy Management
Systems

Instrumentation and Controls

Energy Investigation Support Tools

Fuels, Furnaces, and Fired Equipment
Basics

Plant Water Systems, Heat Exchange
Systems

Boiler and Steam Systems and Electric
Motors & Drives

Pump Systems, Fan Systems and
Compressed Air Systems

WHO SHOULD ATTEND

Any individuals seeking a better understanding of
Knowledge of Industrial Energy Management.
Licensed Architect or Professional Engineer For those
who are starting their journey in the Industrial
Energy Management, Measurement & Verification and
Energy Efficiency Profession.

Are you a technical or operations engineer
responsible for optimizing the system's performance
of industrial equipment, such as instrumentation,
controls, pumps, motors, drives and compressed air
systems?

Are you an industrial plant manager responsible for
energy or utility costs for your facility?

An Industry Recognized Certification for Industrial
Energy Management Professionals

THE VALUE OF CIEP CERTIFICATION

Gaining a wide-reaching and industry-recognized
certification is always a personal and financial
investment.

Individuals report career improvements in the form
of salary and responsibility increases.

The certification shows individuals hold a
fundamental understanding of the profession and a
commitment to the highest standards of quality.

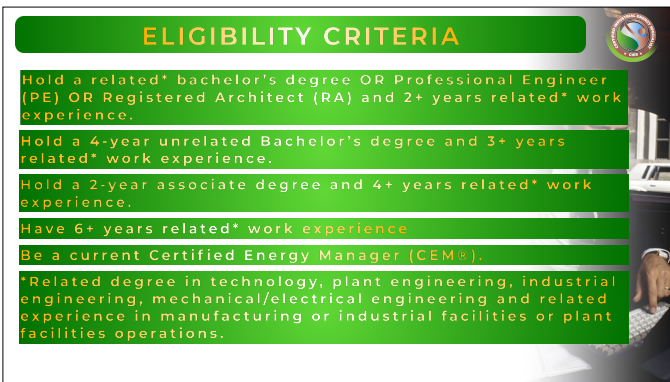
Enhanced professional credibility and Increased job
opportunities

Get CERTIFIED INDUSTRIAL ENERGY
PROFESSIONAL - CIEP Credentials in your CV



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**GET READY TO EARN
CERTIFIED INDUSTRIAL ENERGY
PROFESSIONAL - CIEP CREDENTIAL
AND ENROL NOW!**



ELIGIBILITY CRITERIA

Hold a related* bachelor's degree OR Professional Engineer (PE) OR Registered Architect (RA) and 2+ years related* work experience.

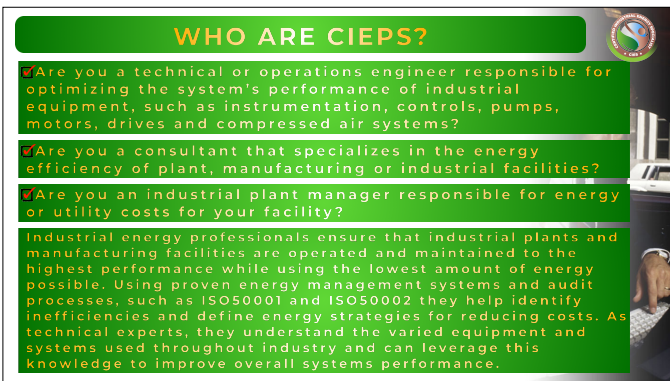
Hold a 4-year unrelated Bachelor's degree and 3+ years related* work experience.

Hold a 2-year associate degree and 4+ years related* work experience.

Have 6+ years related* work experience.

Be a current Certified Energy Manager (CEM®).

*Related degree in technology, plant engineering, industrial engineering, mechanical/electrical engineering and related experience in manufacturing or industrial facilities or plant facilities operations.



WHO ARE CIEPS?

✓Are you a technical or operations engineer responsible for optimizing the system's performance of industrial equipment, such as instrumentation, controls, pumps, motors, drives and compressed air systems?

✓Are you a consultant that specializes in the energy efficiency of plant, manufacturing or industrial facilities?

✓Are you an industrial plant manager responsible for energy or utility costs for your facility?

Industrial energy professionals ensure that industrial plants and manufacturing facilities are operated and maintained to the highest performance while using the lowest amount of energy possible. Using proven energy management systems and audit processes, such as ISO50001 and ISO50002 they help identify inefficiencies and define energy strategies for reducing costs. As technical experts, they understand the varied equipment and systems used throughout industry and can leverage this knowledge to improve overall systems performance.

WHAT DOES THE CIEP TRAINING PROGRAM OFFER?



✓This program helps educate and qualify individuals involved in energy management for industrial applications or manufacturing facilities.

✓By obtaining the CIEP certification, candidates gain industry and peer recognition by demonstrating their understanding of core principles, practices, and technologies. The program also raises the professional standards, both technical and ethical, of those engaged in the industry.

WHAT IS THE BOTTOM LINE FOR ME OR MY COMPANY?



Gaining a wide-reaching and industry-recognized certification is always a personal and financial investment. Individuals report career improvements in the form of salary and responsibility increases.

The certification shows individuals hold a fundamental understanding of the profession and a commitment to the highest standards of quality. Companies, organizations, and consultants with a CIEP on-staff often see a higher affinity with their customers because CIEPs understand their customer's requirements and are trusted subject matter experts.

WHAT DOES A CIEP DO?



Industrial energy professionals ensure that industrial plants and manufacturing facilities are operated and maintained to the highest performance while using the lowest amount of energy possible.

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AFTER CIEP CERTIFICATION

The CIEP certification can help define your status as an energy professional and help progress your career.

Once complete, make sure you maintain your account and keep track of your certification on aeecenter.org. You can also keep up to date on energy management practices and technologies by joining your local AEE Chapter. Energy professionals continuously tell us that they stay ahead in the industry by getting involved in their local community.

Rising energy costs and inefficiency in plants and industrial facilities is continually driving the need for trained and experienced industrial energy professionals. The CIEP certification recognizes professionals as having the required knowledge and experience needed to succeed in the growing field of industrial and manufacturing energy efficiency.



BODY OF KNOWLEDGE

	Body of Knowledge	Percent of Exam
1	Fundamentals to Industrial Energy Audits and Energy Management Systems	5 - 7%
2	Instrumentation and Controls	6 - 8%
3	Energy Investigation Support Tools	6 - 8%
4	Fuels, Furnaces, and Fired Equipment Basics	8% - 12%
5	Plant Water Systems	6% - 8%
6	Heat Exchange Systems	8% - 12%
7	Boiler and Steam Systems	10% - 14%
8	Electric Motors & Drives	8% - 12%
9	Pump Systems	8% - 12%
10	Fan Systems	7% - 11%
11	Compressed Air Systems	8% - 12%





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THANK YOU



THE WORLD'S 1ST GREEN TECHNOLOGY MARKETPLACE
