

# Comprehensive 4-Day Training Program for Energy Auditor



## Preparatory Courses and Certification Examinations for the Certified Energy Auditor

Locations in India and Nepal (<https://www.aeecenter.org/certifications/certifications/certified-energy-manager>) Organized and Conducted by IISWBM

These training seminars provide an in-depth, comprehensive learning and problem-solving forum for those who want a broader understanding of the latest energy cost reduction techniques and strategies, as well as serving as a preparatory course of instruction for energy professionals preparing to sit for AEE's Certified Energy Auditor (CEA®) examination. Answers to the Frequently Asked Questions are available at <https://www.aeecenter.org/certifications/faq-qa>

### PROGRAM OF STUDY

The Certified Energy Auditor (CEA) is an individual who evaluates and analyzes how energy is being used in a facility, identifies energy conservation opportunities and makes recommendations where consumption can be reduced or optimized. The program begins by examining the fundamentals within all key areas of energy audit. From there, the instructors systematically move to a "working level" knowledge of the specific principles and techniques needed to really get the job done. This approach has been designed to fulfill the needs of professionals who seek a broader and more detailed learning experience than can be provided in AEE's shorter courses. In four days of at least 24 hour of interaction and four hours of CEA examination, you can gain the knowledge and confidence it takes to effectively apply state-of-the-art principles of energy audit, and to achieve control over energy costs in your organization — whether you're responsible for managing a single facility or developing an energy management program for multiple corporate facilities, government buildings, etc. Please click on <https://goo.gl/forms/WXJGGI5I9YnqnXAK2> to give your response.

### REGISTRATION

Updates on Course schedules, venue, dates, cost, eligibility, contact for details and registration information are available at: [www.aeecenter.org/internationalcertification/CEA](http://www.aeecenter.org/internationalcertification/CEA) and [www.iiswbm.edu](http://www.iiswbm.edu). Email your queries to [bkchoudhury@iiswbm.edu](mailto:bkchoudhury@iiswbm.edu) and [binoykchoudhury@gmail.com](mailto:binoykchoudhury@gmail.com) and/or phone/SMS +91 9433153009 or +91 9123395598

### INDICATIVE INFORMATION

If those who are eligible, in terms of educational qualification, to take the exam (but do not meet the experience requirement, on the date of application for CEA examination, as mentioned on the right-side column of this paper) receive a passing score and they can still earn the Energy Manager In Training (EMIT) certification. Then they have up to six years to gain the number of years of experience needed based on their education level (see eligibility requirements for CEA & EMIT).

If interested in CEM or other course of AEE you may also Email to [bkchoudhury@iiswbm.edu](mailto:bkchoudhury@iiswbm.edu) for details. # Others remaining same, CEM will start one day before to CEA, as in the following Table:

Important Dates for both CEA and CEM #	Fees* (INR)	Kolkata	New Delhi	Mumbai
Venue		IISWBM	To be declared soon	
Training Seminar # (Start: 8.30 Hrs)	25000	May 25-28 CEA	June 5-8	December 4-7
Examination (From 13 to 17 Hrs)	15000	May 28	June 8,	December 7
Application Complete with Fees, within this date		May 10	May 24	November 8
Email of Admit Card (with Centre address) to Eligible Candidates		May 17	May 31	November 22
Declaration of Examination Result		July 25	July 31	February 7

\* Fees include relevant expenditures for Lectures and Study Materials, Certificate, Laboratory & Library (if at IISWBM), Lunch, Tea, etc. as applicable, but excluding lodging, dinner, etc. 10% Discount in Fees will be applicable to valid AEE Members and also to Alumni Members of IISWBM and AEE Student Members who served the respective AEE Student Chapters as Office Bearers.

### CERTIFICATION ELIGIBILITY

The CEA exam will be administered at the close of instruction on day four to those, with requisite experience and degree from an (AICTE/UGC/AIU/Such Body) accredited university or college, who have qualified in advance to sit for the exam by submitting a completed CEA application and fee.

Each applicant for the CEA certification is required to attend AEE's five-day "Certified Energy Auditor" training\*\* program in order to sit for the exam. Prior to sitting for the exam, each candidate must complete an application. Each candidate must also pass the four-hour written exam as well as meet one of the following eligibility criteria and paid full-time work experience:

- A four-year degree in engineering or architecture or be a registered professional engineer (P.E.), or registered architect (R.A.). In addition, the applicant must have at least 3+ years experience in energy engineering or energy management; or
- A four-year degree in technology, environmental science, physics, or earth science and have at least 3+ years experience in energy engineering or energy management; or
- A three-year degree in business and at least 6+ years experience in energy engineering/management; or
- A three-year degree holder with post-graduate degree in Management or equivalent with 5+ years of work experience involving use of energy in operation, maintenance, planning, etc.; or
- A post-graduate Engineer (Master of Engineering/Master of Technology) or equivalent with 2+ years of work experience involving use of energy in operation, maintenance, planning, etc.; or
- A graduate Engineer with post-graduate degree in Management or equivalent with 2+ years of work experience involving use of energy in operation, maintenance, planning, etc.; or
- A diploma Engineer or equivalent with 6+ years of work experience involving use of energy in operation, maintenance, planning, etc.; or
- a post-graduate in Physics or Electronics or Chemistry (with Physics and Mathematics at graduation level) with 5+ years of work experience involving use of energy in operation, maintenance, planning, etc.

# CEA Training would not be mandatory for the following candidates:

- Candidate possessing CEA or CEM certification from Bureau of Energy Efficiency (BEE), Government of India
- Candidate completed MBA-PS degree OR Master in Public Systems Management (MPSM) with specialization in Energy Management OR Post-graduate Diploma in Energy Management (Approved by AICTE) from IISWBM/University of Calcutta.



## COURSE OUTLINE FOR CEA INTERNATIONAL OF AEE

( <https://portal.aeecenter.org/files/certification/International/SICEABrochure.pdf>  
<https://portal.aeecenter.org/14a/pages/index.cfm?pageID=4827> and <https://www.youtube.com/watch?v=qcSqIfVV-Ik>)

### Some of the Competencies desirable:

1. Know the techniques of energy optimization and its application to buildings and facilities, detecting and evaluating the opportunities for saving and improving energy efficiency.
2. Apply the principles of efficient use of energy.
3. Know the methods of analysis and management for the implementation of energy saving and efficiency measures to buildings and facilities.
4. Be able to perform an energy audit of buildings and facilities, obtaining a reliable knowledge of energy consumption to identify where and how energy is consumed and the factors that affect the different processes. **Present on 4<sup>th</sup> day audit report\***

### All Eight Papers are Mandatory in CEA Examination:

1. Energy Audits and Instrumentation
2. Energy Fundamentals and Energy Accounting
3. Economic Analysis of Energy Conservation Measures; Financing Energy Projects; Performance Contracting; and Measurement and Verification
4. Building Systems, Lighting, HVAC, Chillers
5. Controls, Control Systems; Building Automation Systems; and Facility Electrical Systems
6. Motors and Drives
7. Boilers, Steam Systems, Compressed Air Systems, and Industrial Processes
8. Operations and Maintenance

\* ppt in 15 minutes any recent one you participated

[SI CEA Study Guide available at https://www.aeecenter.org/certifications/resources/CEA-resources](https://www.aeecenter.org/certifications/resources/CEA-resources)

Registered Participants can collect the Workbook Materials from IISWBM even before the Training Seminar, as per their convenience. AEE Book also may be available at cost.

## COURSE INSTRUCTORS FOR CEA & CEM INTERNATIONAL\*



**Binoy K Choudhury,**  
Ph D., CEA & CEM (AEE, USA),  
A.E.A.(BEE, Govt. of India)

Binoy K Choudhury, the only CEA & CEM Trainer in the region, a Mechanical Engineering Graduate from Jalpaiguri Government Engineering College, Ph D from the Indian Institute of Technology (IIT) Kharagpur, Fellow of Institution of Engineers (India), Association of Engineers (India) & Indian Water Works Association - is currently Professor in the Energy Management stream of MBA PS (erstwhile MPSM) programme at the Indian Institute of Social Welfare and Business Management (IISWBM), Kolkata. He is Guest Faculty member of IEST and Kalyani University. He can be reached at [bkchoudhury@iiswbm.edu](mailto:bkchoudhury@iiswbm.edu) and [binoykchoudhury@gmail.com](mailto:binoykchoudhury@gmail.com).

He also coordinated 14 batches of Short Term Course in Energy Management and Audit since 2007. He has over 22 years of teaching/ professional experience which includes more than 18 years in the present Institute. He served as Principal Investigator/Coordinator in more than ten renewable energy and energy efficiency projects which covers community development to industrial profitability/sustainability issues. He is honorary Assistant Director International Member Development for Asian Sub-continent, Association of Energy Engineers USA (<https://www.aeecenter.org/certifications/certifications/certified-energy-auditor>); member in Energy & Environment Standing Committee, the Bengal National Chamber of Commerce & Industry; JICA Alumni Association of India; The Bengal Chamber Energy and Environment Committee; Low Carbon Energy for Development Network (UK). He is founder editor of Energy Window, AEE Newsletter, on the editorial board of REASON- A Technical Journal and reviewer of ACTA Press, Energy for Sustainable Development, etc.

\* Other expert(s) would join as per requirement and availability

	Mumbai	New Delhi
Name of the Contact Person (s)	<b>Mr. Milind Chittawar, President, AEE Western India Chapter</b> <a href="mailto:milind.chittawar@seetechsolutions.in">milind.chittawar@seetechsolutions.in</a> <b>Mr. Vinay Gadikar, CEA(USA)</b> <a href="mailto:vinaygadikar@gmail.com">vinaygadikar@gmail.com</a> ; Mobile: 8422960001	<b>Mr. Dalip Singh, President, AEE Delhi Chapter (DC)</b> <a href="mailto:dschahar@gmail.com">dschahar@gmail.com</a> ; Mobile: 9350846853 <b>Mr. R K Yadav, Vice President, AEE DC; <a href="mailto:rajendra805@gmail.com">rajendra805@gmail.com</a></b>

Use <http://www.iiswbm.edu/WebPages/Downloads/SeminarAndWorkshop/IISWBMCEAKoINDLMumApplication2018.docx> (MSWord version also available by email) to apply (through both Email to [bkchoudhury@iiswbm.edu](mailto:bkchoudhury@iiswbm.edu) as well as [binoykchoudhury@gmail.com](mailto:binoykchoudhury@gmail.com) and copy to [fo@iiswbm.edu](mailto:fo@iiswbm.edu) as well as [registrar@iiswbm.edu](mailto:registrar@iiswbm.edu) by stipulated date, and also hard copy to be handed over on Exam date at site in Kolkata, New Delhi or in Mumbai, respectively, with Name(s), Qualifications & Experience (enclose supporting document), Address for Communications (with mobile number and Email), and other information as per Application Format with PP size Photo, and proof of payment made (eg. Draft No. or bank generated receipt with UTR number) in any one of the following two options:

- i) A/c Payee Bank Draft in favour of "Indian Institute of Social Welfare & Business Management". The draft should be drawn on State Bank of India, Service Br., Kolkata and should reach the Institute by the stipulated date between 10.30 a.m. to 03.00 p.m. (except Saturday & Sunday) OR
- ii) Online Payment by stipulated date: Bank details for NEFT/RTGS Transfer: Beneficiary: IISWBM, Name of Bank: State Bank of India, Surya Sen Street Branch, Kolkata, ACCOUNT NO.:10252384198, IFS Code: SBIN 0003496.

