

Comprehensive 5-Day Training Program for Energy Managers



Preparatory Courses and Certification Examinations for the Certified Energy Manager
 Locations in India and Nepal (<https://www.aeecenter.org/certifications/certifications/certified-energy-manager>)

This seminar provides 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 Manager (CEM®) examination. Answers to the Frequently Asked Questions are available at <https://www.aeecenter.org/certifications/faq-qa>

PROGRAM OF STUDY

The program begins by examining the fundamentals within all key areas of energy management. 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 five days of at least 32 hours of interaction and four hours of CEM examination, you can gain the knowledge and confidence it takes to effectively apply state-of-the-art principles of energy management, 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. The program has been completed by thousands of professionals since its inception in 1994.

REGISTRATION

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

INDICATIVE INFORMATION

Course schedule: CEM Training Program during November 20-24, 2017 at The Institution of Engineers (India), Mumbai - 400 034 and during November 27 - December 1, 2017 at The Institution of Engineers (India), New Delhi 110002. Subsequent batches would be held in other metropolis in India and Nepal.

Options: As per eligibility and interest, candidates can opt for any one of the following:

Option	What It Means	Eligibility	Duration	Fees per head*
A	CEM Examination	CEM Training/ BEE CEM/CEA/MBA-PS [#]	Four hours: 1 – 5 pm on 24 th Nov 2017 in Mumbai and on 1 st December in Delhi	INR 15000 (USD 235 appx)
B	CEM Training and CEM Examination	As mentioned on right side column	32 hours in 5 days (October 3-7, 2017 in Mumbai and November 27 - December 1, 2017 in Delhi) plus Option A	INR 40000 (USD 625 appx)

* Fees include relevant expenditures for Lectures, Certificate, Laboratory, Study Materials, Lunch, etc. as applicable, but excluding lodging, dinner, etc. **10% Discount in Fees will be applicable** to AEE Members if the Membership is valid on the Date of the Training and/or Examination and also to the Alumni Members of IISWBM, VIT and Amity University who were AEE Student Members and served the respective AEE Student Chapters as Office Bearers

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 CEM examination, as mentioned on the right-side column of this paper) receive a passing score, they can still earn the Energy Manager In Training (EMIT) certification. Then they have up to six years to gain the requisite experience.

CERTIFICATION ELIGIBILITY

The CEM exam will be administered at the close of instruction on day six 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 CEM application and fee.

Each applicant for the CEM certification is required to attend AEE's five-day "Certified Energy Manager" 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.

** CEM Training would not be mandatory for the following candidates (enabling them to opt for Option A):

- Candidate possessing CEM or CEA certification from Bureau of Energy Efficiency (BEE), Government of India
- Candidate completed, within three years from the date of examinations they take, [#] MBA-PS degree OR Master in Public Systems Management (MPSM) with specialization in Energy Management from University of Calcutta

Rise to the Top of the Energy Management Profession: Become AEE Certified

COURSE OUTLINE FOR CEM OF AEE INTERNATIONAL

(https://portal.aeecenter.org/files/certification/International/SICEMBrouchure.pdf
 https://portal.aeecenter.org/14a/pages/index.cfm?pageID=4827 and https://www.youtube.com/watch?v=qcSqIFVV-1k)

Section I – Mandatory Energy Accounting & Economics

Section II – Mandatory Energy Audits & Instrumentation

Candidates should choose any Nine of the remaining 13 sections from the following:

- Electrical Systems
- Heating, Ventilating, & Air Conditioning Systems
- Motor and Drive Systems
- Industrial Systems
- Building Envelope
- Combined Heat & Power Systems and Renewable Energy Systems
- Building Automation Systems

- Control Systems
- Thermal Energy Storage Systems
- Lighting Systems
- Boiler & Steam Systems
- Maintenance & Building Commissioning
- Financing, Performance Contracts, Measurement & Verification

For the detailed course outline, view the link.....

[SI CEM Study Guide](https://www.aeecenter.org/certifications/resources/cem-resources)
 (https://www.aeecenter.org/certifications/resources/cem-resources)

COURSE INSTRUCTORS FOR CEM*

Binoy K Choudhury,
 Ph D., C.E.M.(AEE, USA),
 A.E.A.(BEE, Govt. of India)



Other expert(s) would be available as per requirement and availability

Binoy K Choudhury, the only 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 PSM (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 and binoykchoudhury@gmail.com.

He also Coordinated 14 batches of Short Term Course in Energy Management and Audit since 2007. He has over 21 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-manager); 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.

	Mumbai	Delhi
Name of the Contact Person (s)	Mr. Milind Chittawar, President, AEE Western India Chapter milind.chittawar@seetechsolutions.in	Mr. Dalip Singh, President, AEE Delhi Chapter dschahar@gmail.com

Use format given in IISWBMCEMMumDelApplication2017.doc to apply (through both Email to bkchoudhury@iiswbm.edu as well as binoykchoudhury@gmail.com and copy to fo@iiswbm.edu as well as registrar@iiswbm.edu by 10th November, 2017, and also hard copy to be handed over on 24th November 2017 at site in Mumbai or 1st December 2017 at site in Delhi, 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, Option (A or B) and proof of payment made (eg. bank generated receipt with UTR number) in any one of the following three options:

- i) A/c Payee Bank Draft in favour of "Indian Institute of Social Welfare & Business Management" at the time of admission. The draft should be drawn on State Bank of India, Service Br., Kolkata and should reach the Institute by 10th November, 2017 between 10.30 a.m. to 03.00 p.m. (except Saturday & Sunday) OR
- ii) Online Payment by 10th November, 2017 : 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.

THE ASSOCIATION OF ENERGY ENGINEERS
 3168 MERCER UNIVERSITY DRIVE,
 ATLANTA, GA 30341; USA
 770-447-5083 | www.aeecenter.org

INDIAN INSTITUTE OF SOCIAL WELFARE & BUSINESS MANAGEMENT
 (IISWBM) MANAGEMENT HOUSE, COLLEGE SQUARE WEST, KOLKATA
 INDIA, PIN- 700073; www.iiswbm.edu; Phone: 9433153009; 40237474
 LAND MARK: University of Calcutta, Presidency University, Hindu Hostel

