

SGS 与美国能源工程师协会 (AEE) 合作 ——  
Cooperate by SGS & AEE ——

## 注册能源管理师 CEM®培训 The Certified Energy Manager (CEM®) Training for Professional Certification

注册能源管理师 CEM® (Certified Energy Manager) 由美国能源工程师协会 AEE (Association of Energy Engineers) 在 1981 年引入美国, 是北美知名的能源管理培训和认证课程。CEM® 证书得到美国政府、企业及能源服务界的广泛认可。

注册能源管理师课程已经进入中国, 作为能源领域广受认可的高端管理培训项目, 注册能源管理师 CEM® 培训具有先进务实的理念, 对中国的节能减排行业的发展具有极其深远的指导意义。

节能最重要的环节在于具备高素质、专业化的群体人才, SGS 率先引进 CEM® 旨在引进国际能源管理理念和教育课程, 从我国实际出发, 为企业及其他用能单位学习国外先进的能源管理经验提供一条便捷之路, 最大限度地优化企业的能效成果, 这是中国节能之途最关键的环节。

Since its inception by AEE (Association of Energy Engineers) in 1981, the Certified Energy Manager (CEM®) credential has become a famous Energy Management training and certification Course in North America. CEM® certificate has been widely accepted by the government, enterprises and energy services field in the United State.

Now it enters into China, as the widely accepted high-end management training project in energy field, CEM® training applied the advanced and realistic concept, and will contribute significant advice and influence for the development of the energy saving industry in China as well.

Owned a group of professional people will be the most important in energy saving, and the purpose of SGS to introduce the CEM® is to take the lead in importing the international energy management concept and education courses; based on realistic condition of China, providing a way of learning the international advanced energy management experiences to enterprises and other energy usage corporations, optimize the efficiency of energy saving, and this will be the most important part for China energy saving industry.

### 注册能源管理师 CEM® 培训课程内容

- 课程简介; 能源管理的必要性; 能源审计; 能源审计用的仪器和仪表; 电力系统;
- 建筑节能标准; 能源采购; 能源会计和能耗对标; 电费结构; 经济分析以及生命周期成本分析法; 照明基础和照明节能; 电机以及应用; 电力拖动;
- HVAC 基础以及能效改进; 锅炉系统, 热力系统和能效提高; 热力储存系统;

- 压缩空气系统；工厂设施维护；节能项目融资；节能量检测和认证；合同能源管理；建筑物维护结构；
- 生产工艺系统节能；热电联产；绿色建筑；楼宇自动化和控制系统；室内空气质量；
- 考试。

## Course Contents

- A. Need for Energy Management
- B. Conducting an Energy Auditing
- C. Energy Audit Instrumentation
- D. Energy Codes and Standards
- E. Energy Purchasing
- F. Energy Accounting and Benchmarking
- G. Energy Rate Structures
- H. Electric Rate Structures
- I. Economic Analysis and Life Cycle Costing
- J. Sample CEM® Examination Questions
- K. Electrical Systems
- L. Lighting System Basics and Lighting System improvement
- M. Motors and Applications; Drives and Compressed Air Systems
- N. Green Buildings and LEED
- O. HVAC Basics Improvements; Building Envelope; and Thermal Energy Storage
- P. Boilers and Thermal Systems; Boiler Efficiency Improvement
- Q. Industrial Systems; Cogeneration and CHP Systems
- R. Energy Audit Case Study
- S. Writing User – Friendly Energy Audit Reports
- T. Maintenance Programs and Building Commissioning
- U. Building Automation and Control System
- V. Alternative Financing and M&V
- W. List of Acronyms
- X. Other Charts and Tables for CEM® Examination

## 注册能源管理师 CEM® 申请

学员在注册能源管理师 CEM® 培训考试合格后，可申请 AEE“注册能源管理师”，但必须满足如下四个条件之一。

- 四年制大学工程学历，至少 3 年节能工程或能源管理经验
- 四年制大学商业类或同等学历，至少 5 年以上相关经验
- 2 年制专科学校学历，至少 8 年以上相关经验
- 十年以上可以得到认证的相关经验。

(注:申请人须提供推荐信以及就业证明材料作为相关经验凭证)

## How to Apply for CEM® Certification

The prerequisites to qualify for the certification process have been designed to take into account the possible diversity of education and practical experience an individual may have. However each CEM® candidate must meet one of the following criteria:

- A four-year engineering degree and/or P.E. with at least three years experience in energy engineering or energy management.
- A four-year business or related degree with at least five years experience in energy engineering or energy management.
- A two-year technical degree with at least eight years experience in energy engineering or energy management.
- Ten years or more verified experience in energy engineering or energy management.

(Note: Letters of reference and verification of employment must be submitted.)

有关注册能源管理师 CEM® 培训的详情，请联系 SGS 通标公司：

华中区

联系人:彭小姐

电话: 021-6115 2427

手机:139 1695 2083

传真:021-6495 3270

邮箱:jenny.peng@sgs.com

华北区

联系人:李小姐

电话: 010-6845 7980

手机:139 1695 2083

传真:010-6495 3270

邮箱:vicky.li@sgs.com

华南区

联系人:王小姐

电话: 0755-83197517

手机:139 1695 2083

传真:0755-83197517

邮箱:jenny.wong@sgs.com

Anything needs further clarification, please contact with SGS Ms. Jenny Peng at 13916952083 or e-mail: jenny.peng@sgs.com

注册能源管理师 CEM®培训申请表  
Application Form of CEM® Training

## 注册能源管理师培训 CEM® Training

培训计划 (2009 年):

Training Plan(2009):

培训时间(日期待定) Training Time(Tentative)	11 月 23~28 日 November 23~28th	12 月 7~11 日 December 7~11th	12 月 14~18 日 December 14~18th
培训地点 (请选择打勾) Training Location	<input type="checkbox"/> 上海 <input type="checkbox"/> Shanghai	<input type="checkbox"/> 深圳 <input type="checkbox"/> Shenzhen	<input type="checkbox"/> 北京 <input type="checkbox"/> Beijing
报名截止日期 Deadline	11 月 6 日 November 6th	11 月 20 日 November 20th	11 月 27 日 November 27th

培训费用: RMB15000/人 (包括培训教材、授课、证书、午餐、茶点)

Training Fee: RMB15000/Head (Including training material, Course Certificate, Lunch and Tea break)

培训语言(请选择打勾):

英文

中文

Training Language(please tick):

English

Chinese

报名: 请于培训前将报名回执点邮/传真至本公司, SGS 将在培训前两个星期发给您本课程的确  
认函。

公 司(Company): \_\_\_\_\_

联系人(Contact Person): \_\_\_\_\_

电话(Tel): \_\_\_\_\_

电子邮件(E-mail): \_\_\_\_\_

传真(Fax): \_\_\_\_\_

地址(Address): \_\_\_\_\_

邮编(P.C): \_\_\_\_\_

学员姓名/汉语拼音 Delegates Name	部门 Department	电邮 E-mail