



## **Benefits as a Certified Energy Manager (CEM)**

**The benefits are outlined in two categories:**

1. Individual Benefits
2. Corporate Benefits

### ***Individual Benefits***

**When you become a Certified Energy Manager (CEM) you will receive the following benefits:**

1. Registered to conduct energy audit and management for the Government of Jamaica, the Development Bank of Jamaica through the Petrocaribe Energy Fund Line of Credit available to Small and Medium Sized Enterprises (SMEs)
2. Qualified to practice as an energy manager both locally and internationally
3. Official Recognition and Credentialing as an Energy Professional; the Certified Energy Manager (CEM®) credential has become internationally recognized as a measure of professional accomplishment within the energy management field. It has gained industry-wide use as the standard for qualifying energy professionals. This credential is officially recognized by most government agencies in the Caribbean and the US (including the U.S. Department of Energy, the Office of Federal Energy Management Programs (FEMP), and the U.S. Agency for International Development).
4. Registered on the database of the Jamaica Society of Energy Engineers as a professional energy manager and auditor.



## ***Corporate***

**Companies that employ or train certified energy managers (CEM) can be expected to benefit in the following ways:**

1. Reduction in energy cost/consumption: A CEM is a highly trained professional who is competent in various areas which may utilize energy conservation measures to reduce energy consumption of a company.
2. Educating and Training of staff: A CEM has the capability to educate and train the company's staff on how to utilize energy conservation measures that will promote low energy consumption in order to maximize the energy returns for the organization. Currently, with an economic melt down and an increase in the cost for crude oil, companies need staff that are keen and kept abreast of the most cost effective energy saving technologies.
3. Certification of Company's operations and processes: Your in-house energy professional will manage, guide and implement strategies to ensure that your company exploits energy-related trade and marketing incentives. Examples include carbon credit trading, ISO certification, LEED® certification and Energy Star®.

### ***A CEM is capable to perform the following tasks:***

- Performing Detailed Energy Audits
- Identifying Energy Efficiency Improvements
- Developing and Overseeing Corporate Energy Management Plans
- Identifying Renewable Energy and Conservation Projects
- Conducting Energy Training and functioning as an on-site consultant to manage and facilitate energy and cost savings programs.



- Management and Operation of data-logging, metering and energy management systems and technologies.

### ***Programme Structure for the CEM Certification***

All CEM candidates must satisfactorily complete a four-hour written open-book exam, proctored by an approved exam administrator. Of the following seventeen sections of the exam, candidates must complete at a minimum of eleven, including those indicated as ***required***:

1. Energy Accounting and Economics - ***Required***
2. Energy Audits and Instrumentation - ***Required***
3. Electrical Systems
4. HVAC Systems
5. Motors and Drives
6. Industrial Systems
7. Building Envelope
8. Cogeneration and CHP Systems
9. Building Automation
10. Control Systems
11. Thermal Energy Storage Systems
12. Lighting Systems
13. Boiler and Steam Systems
14. Maintenance
15. Building Commissioning and Measurement & Verification