

## **ENERGY MANAGEMENT**

### **5-Day Training Program**

#### **INTRODUCTION**

This training program is designed for Energy Managers in all sectors of industry and commerce, and is accredited by the Institute of Energy. It covers a full range of issues concerned with the efficient management of energy consumption, and is intended to take people who are new to energy management up to the level of an all-round competent professional. It will also be useful to energy managers who have been in post for many years, as a means of updating their knowledge. It is a way of gaining a formal qualification.

#### **WORKSHOP OBJECTIVES**

- ❖ Our workshops are aimed at saving your company money and improving energy efficiency.
- ❖ We are focused on providing practical solutions for energy management within your organization.
- ❖ Our courses will keep you up to date with legislation.
- ❖ They are aimed at energy professionals and newcomers to the industry delivered by experts.

#### **WHO SHOULD ATTEND**

- ❖ This course is perfect for those who want to increase their knowledge of energy management through a practical guide to carbon reduction.
- ❖ Anyone that wants to help their organization manage its energy use more Efficiently through accurate metering, monitoring and targeting
- ❖ Anyone with an interest in managing energy usage within their organization.
- ❖ Whether you are new to the field or interested in refining or refreshing your knowledge and methodology, this course is for you.
- ❖ Anyone involved in energy reporting or energy assessing buildings or who wants to issue energy certification to domestic, commercial or industrial buildings.

#### **PROGRAM**

##### **DAY 1 - General introduction and terms definitions**

- ❖ An Introduction to Energy Technology
- ❖ Principles of Fuel Combustion

- ❖ Combustion Equipment and Practice
- ❖ Energy and the Environment

## **DAY 2 - Heat flow and insulations**

- ❖ Heat Transfer Fundamentals
- ❖ Mechanisms of Heat Flow
  - Renewable and CHP
  - Emissions trading
  - Energy Performance Certificates
  - Display Energy Certificates
  - Carbon foot printing
  - Carbon reduction commitments
  - Current and planned Building Regulations

## **DAY 3- Energy Management**

- ❖ An Overview of General Energy Utilization
- ❖ Management Techniques for Energy Managers
- ❖ Developing the Financial Case
- ❖ Energy Auditing
- ❖ ISO14001, international standards on energy management
  - EN16001, the newly emerging European Energy Management Standard
  - Other upcoming energy standards

## **DAY 4- Energy Costing / Finance**

- ❖ Energy Costs, Tariffs and Scheduling
- ❖ Energy Monitoring and Target Setting
- ❖ Energy Efficiency
  - Get a practical overview of the utilization of small scale renewable
  - See wind turbines, pv panels, fuel cells and many other technologies in action
  - Find out about essential planning issues, current government legislation and grants available
  - Start planning how to implement changes and improvement in your organization with support from our expert speakers

## **DAY 5 - Energy Project Planning**

- ❖ Initial planning stage
- ❖ Preparing a development budget
- ❖ Obtaining internal buy-in and budget



- ❖ Economic viability
- ❖ Financing Plan
- ❖ Major risk assessment
- ❖ Presentation to the board
  - Background to auditing, energy management principles, legislation, benchmarking and estimation auditing.