



ASIAN PRODUCTIVITY ORGANIZATION

PROJECT IMPLEMENTATION PLAN

28 May 2014

1. **Project Code:** 14-IN-06-GE-TRC-A
2. **Project Title:** Self-learning e-Course on Energy Efficiency and the Energy Management System (ISO 50001)
3. **Reference:** Project Notification 14-IN-06-GE-TRC-A dated 25 March 2014
4. **Timing:** 1 August–31 October 2014 (three months)
5. **Implementing Organizations:** APO Secretariat and National Productivity Organizations (NPOs)
6. **Number of Participants:** Minimum 20 from each participating country (Minimum 380 participants per course)
7. **Self-registration:** Self-registration opens from 10:00 AM Japan Standard Time on 1 August 2014 on the APO's e-learning web portal: <http://www.apo-elearning.org/moodle19/>

Note: Participants can register directly from this portal on the APO website. Those who are already registered can access the course using the assigned username and password. If you have forgotten your username and password, please refer to the FAQs on the home page of the portal.

8. **Objective:**

To enable participants to learn about energy efficiency and the energy management system (ISO 50001) and to understand how energy efficiency can be achieved by application of the energy management system.

9. **Background**

Interest in energy efficiency is not new among organizations and companies in all sectors as well as consumer groups worldwide. Energy efficiency has been a goal for years to provide more power for economic activities and residential demand at lower cost while using less fuel. There have been some clear successes in many parts of the world, such as the growing adoption of energy-saving appliances and utilization of energy-efficient techniques and technologies. Yet more needs to be done in both the private and public sectors to facilitate

energy-efficient practices and procedures in the Asia-Pacific region, where growing demand for energy supplies, emerging environmental issues, and increased stress on aging energy infrastructure have become evident.

Organizations that waste energy through lax processes and insufficient management are not only losing money but are also causing avoidable pollution through increased carbon emissions. In addition, energy security and fossil fuel depletion have become global concerns. Proper energy management through energy efficiency/conservation measures are therefore of paramount importance. This course will assist industry managers and professionals to establish, implement, maintain, and improve energy management systems to achieve continual improvement of their energy performance/energy efficiency based on the ISO 50001 standard.

10. Scope and Methodology

Scope

The course will cover the following modules:

- Module 1: General Concept and Overview of Energy Efficiency and the Energy Management System
- Module 2: Principles, Tools, and Techniques for Achieving Energy Efficiency
- Module 3: Energy Efficiency: Application in Industries
- Module 4: Energy Efficiency: Application in Buildings
- Module 5: The Energy Management System: General Requirements and Management Responsibility
- Module 6: The Energy Management System: Energy Policy and Energy Action Plan
- Module 7: The Energy Management System: Implementation and Operation
- Module 8: The Energy Management System: Performance Audits and Management Review
- Module 9: Final Exam

Methodology

Self-learning e-modules, additional study material for participants, intermittent quizzes for self-assessment, and a final examination to qualify for the APO e-certificate.

11. Qualifications of Candidates

The target groups are environmental/Green Productivity/energy management personnel, trainers, or consultants, and senior/mid-level managerial and technical personnel from industry in the environmental/energy field.

12. Eligibility for e-Certificate

A minimum score of 70% on the final examination is required to qualify for the APO e-certificate. The certificates will be provided through NPOs after course completion on 31 October 2014.

Note: Participants from nonmember countries are welcome to take the course for self-development, although APO e-certificates will not be provided.

A handwritten signature in black ink, appearing to be 'Mari Amano', written over a faint, large oval shape.

Mari Amano
Secretary-General