

TRAINING TITLE

ENERGY EFFICIENCY TOOLS AND APPLICATIONS IN THE OIL AND GAS INDUSTRY

Training Duration

5 day

Training Venue and Dates

Ref. No. PE187	Energy Efficiency Tools and Applications in the Oil and Gas Industry	5	04-08 Aug. 2025	\$5,500	DUBAI, UAE
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In any of the 4 or 5-star hotels. The exact venue will be informed later.

Training Fees

- \$5,500 per participant for Public Training includes Materials/Handouts, tea/coffee breaks, refreshments & Lunch

Training Certificate

Define Management Consultants Certificate of course completion will be issued to all attendees.

TRAINING DESCRIPTION

This 5-day course provides participants with essential knowledge of energy efficiency tools and applications tailored to the Oil and Gas industry. It covers energy management systems, auditing techniques, optimization methods, and the latest technologies used to enhance energy efficiency in exploration, production, refining, and transportation. Participants will gain practical insights into energy-saving strategies and tools that can be applied to reduce energy consumption and improve operational efficiency.

TRAINING OBJECTIVES

By the end of the course, participants will be able to understand

- To understand energy efficiency challenges and solutions in the Oil and Gas industry.
- To learn how to apply energy management tools and technologies effectively.
- To explore strategies for optimizing energy use in upstream and downstream operations.
- To gain hands-on knowledge of energy auditing and monitoring tools.
- To implement practical energy-saving measures and track performance.

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WHO SHOULD ATTEND?

- Energy Managers and Engineers
- Oil and Gas Industry Operators
- Environmental and Sustainability Professionals
- Facility and Plant Managers
- Engineers involved in energy efficiency projects

TRAINING METHODOLOGY

A highly interactive combination of lectures and discussion sessions will be managed to maximize the amount and quality of information and knowledge transfer. The sessions will start by raising the most relevant questions and motivating everybody to find the right answers. You will also be encouraged to raise your own questions and to share in the development of the right answers using your own analysis and experiences. Tests of multiple-choice type will be made available on daily basis to examine the effectiveness of delivering the course.

Very useful Course Materials will be given.

- 30% Lectures
- 30% Workshops and work presentation
- 20% Group Work & Practical Exercises
- 20% Videos & General Discussions

COURSE PROGRAM:

Day 1: Introduction to Energy Efficiency in Oil and Gas

- Overview of energy consumption patterns in the industry
- Key energy efficiency challenges and opportunities
- Introduction to energy efficiency tools and technologies

Day 2: Energy Audits and Management Systems

- Energy audit techniques and tools for oil and gas operations
- Energy management systems (ISO 50001) and their application
- Data collection and analysis for energy performance monitoring

Day 3: Optimization Techniques in Oil and Gas Operations

- Optimizing energy use in exploration and production
- Energy-saving opportunities in refining and transportation

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- Advanced technologies for energy optimization (smart meters, IoT, automation)

Day 4: Energy Performance and Monitoring Tools

- Energy performance indicators (EPIs) and benchmarking tools
- Energy management software and data analytics for decision-making
- Studies of energy efficiency improvements in the oil and gas sector

Day 5: Implementation and Best Practices

- Developing an energy efficiency action plan
- Implementing energy-saving technologies and practices
- Monitoring results and continuous improvement strategies
- Q&A session and discussion on real-world challenges



NOTE:

Pre-& Post Tests will be conducted.

Case Studies, Group Exercises, Group Discussions, Last Day reviews, and assessments will be carried out.

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