



course : Energy Transition and Innovation

City : Kuala Lumpur
Start Date : 2025-10-27
Duration : 1 Week

Hotel : Kuala Lumpur
End Date : 2025-10-31
Price : 3950 \$

Course Overview

As technology advances, a range of new energy options is emerging to support enduring prosperity, energy security, and environmental and public health protection. Rising energy demand requires innovative policies and technologies to accelerate the transition to renewable energy, reduce costs, and ensure sustainable energy production and consumption.

This Energy Transition and Innovation training course equips participants with knowledge, insights, and practical tools to address complex technical, social, economic, legal, and ethical challenges. Participants will learn how to implement sustainable energy solutions and drive innovation in the energy sector.

Course Objectives

By the end of this course, participants will be able to:

- Identify energy sources, their contributions, and associated challenges.
- Develop pathways toward a sustainable energy future.
- Acquire knowledge for implementing renewable energy projects.
- Understand energy consumption models.
- Improve energy production efficiency with minimal investment.
- Use energy analytics for effective energy distribution planning.

Target Audience

This course is suitable for decision-makers, planners, researchers, and consultants involved in energy management and process optimisation, including:

- Researchers and practitioners in the energy sector.
- Professionals in applied sciences.
- Technology engineers, CTOs, and CIOs.
- Strategic development personnel.
- Project managers.

Methodology

Interactive lectures with active participant engagement.

Analysis of energy production, consumption, and distribution practices.

Introduction to emerging energy technologies and innovations.

Experiential exercises, case studies, and simulations to test solutions before real-world application.

Course Outline

Day 1: Introduction to the Energy Industry

- Oil as today's energy source.
- Natural gas as a clean energy pioneer.
- Coal: energy and economic considerations.
- Electricity for all.
- Energy market efficiency.

Day 2: Energy Transition

- Efficiency in industry, living environments, and transportation.
- Fuel transition strategies.
- Future trends in energy.

Day 3: Renewable Sources of Energy

- Reducing waste in electricity production.
- Solar, wind, geothermal, biomass, and hydropower energy.

Day 4: Innovation in the Energy Sector

- Blockchain in energy distribution.
- Energy storage solutions.
- Microgrids and artificial intelligence.
- Energy management and carbon footprint reduction.

Day 5: Energy-Efficient Buildings and Livable Spaces

- Energy flow and performance in buildings.
- Digital twins of buildings and energy systems.
- Designing energy-efficient cities.



Certificates

On successful completion of this training course, HighPoint Certificate will be awarded to the delegates.

Continuing Professional Education credits (CPE): In accordance with the standards of the National Registry of CPE Sponsors, one CPE credit is granted per 50 minutes of attendance.