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Course Name

Energy Transition

Sector Name

Electrical Engineering

Document Type

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Energy Transition

Course Introduction

The Energy Transition course is designed to provide learners with a comprehensive understanding of the global shift from traditional fossil fuels toward cleaner, more sustainable energy systems. As governments and industries worldwide focus on reducing carbon emissions and achieving climate goals, energy transition has become one of the most important topics in the global energy sector.

This course explores the fundamentals of renewable energy, decarbonization strategies, sustainable development, and clean energy technologies. Participants will learn how countries and organizations are transforming energy production, distribution, and consumption to support a low-carbon future.

The program covers major renewable energy sources such as solar energy, wind energy, hydrogen energy, hydropower, and bioenergy, while also examining the role of natural gas and transitional fuels in supporting global energy demand during the transition period.

Learners will also explore energy policies, climate change regulations, carbon management, ESG principles, and energy economics. The course explains how technological innovation, digitalization, and energy efficiency are reshaping modern energy

markets and infrastructure.

In addition, the course discusses the operational, financial, and environmental challenges associated with energy transition, including investment strategies, grid modernization, energy storage systems, and workforce transformation in the energy industry.

This course is ideal for energy professionals, engineers, sustainability specialists, policymakers, environmental consultants, and individuals interested in the future of global energy systems and sustainable business strategies.

By completing this course, participants will gain valuable insights into the evolving energy landscape, enabling them to understand clean energy trends, sustainability initiatives, and strategic opportunities in the rapidly changing global energy sector.

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Target Audience

✓ Researchers and Practitioners in the field of Energy

✓ Professionals in Applied Sciences

✓ Technology Engineers, CTOs, and CIOs

✓ Strategic Development Personnel

✓ Project Managers

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Learning Objectives

- ✓ Identify the sources of energy, their contributions, and issues
- ✓ Learn how to build a path towards a sustainable future
- ✓ Acquire the knowledge needed to implement the renewable energy projects
- ✓ Learn the models of energy consumption
- ✓ Adopt the improvement of energy production without the need for extensive investment
- ✓ Use the energy production and consumption analytics for energy distribution planning

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Course Outline

✓ DAY 01

Introduction to the Energy Industry

- ✓ Oil, the energy of today-yes it still is
- ✓ Natural gas is a clean energy pioneer
- ✓ Coal-the energy and economics
- ✓ Electricity-the energy for all
- ✓ Energy market efficiency

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Course Outline

✓ Day 02

Energy Transition

- ✓ Efficiency in the industry sector
- ✓ Efficiency in the living environment sector
- ✓ Efficiency in the transportation sector
- ✓ Strategy of fuel transition
- ✓ What does the future bring?

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Course Outline

✓ Day 03

Renewable Sources of Energy

- ✓ Wastes in electric energy production
- ✓ Solar energy
- ✓ Wind energy
- ✓ Geothermal energy
- ✓ Biomass energy
- ✓ Hydropower energy

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Course Outline

✓ Day 04

Innovation in the Energy Sector

- ✓ Blockchain in the energy distribution sector
- ✓ Energy storage facilities
- ✓ Microgrids and artificial intelligence
- ✓ Energy management
- ✓ The reduction in carbon footprint

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Course Outline

✓ Day 05

Energy Efficient Buildings and Livable Space

- ✓ Energy flow in buildings
- ✓ Building energy performance
- ✓ Digital twin of buildings and livable space
- ✓ Digital twin of the energy system
- ✓ Design of the energy-efficient city

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
July 5, 2027	July 9, 2027	5 days	4250.00 $	UAE , Dubai
April 5, 2027	April 9, 2027	5 days	4250.00 $	UAE , Dubai
Sept. 20, 2027	Sept. 24, 2027	5 days	4250.00 $	UAE , Abu Dhabi
Dec. 7, 2026	Dec. 11, 2026	5 days	4950.00 $	Netherlands , Amsterdam

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