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Course Name

Energy Transition

Sector Name

Electrical Engineering

Document Type

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Energy Transition

Course Introduction

One of the greatest challenges of the future is finding the solution to the determinants of energy demand through sustainable generation and use of energy. Providing a reliable supply of affordable, safe, and clean energy requires answering complex and significant technical, social, political, economic, legal, and ethical questions, which often appear in combination, to ensure sustainable energy supply, use, and development.

Energy Transition

This Energy Transition and Innovation training course is designed to build capacity through the development of new knowledge, new understanding, and new insights, and can therefore provide effective solutions to complex problems in the energy of the future.

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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
June 29, 2026	July 3, 2026	5 days	4250.00 $	UAE , Dubai
April 5, 2027	April 9, 2027	5 days	4250.00 $	UAE , Dubai
Sept. 14, 2026	Sept. 18, 2026	5 days	4250.00 $	UAE , Abu Dhabi
Dec. 7, 2026	Dec. 11, 2026	5 days	4950.00 $	Netherlands , Amsterdam

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