



"الانتقال الى الطاقة العربية: بناء المرونة المناخية لمستقبل مستدام"

Duration: 5 Days

Language: ar

Course Code: IND01 - 153

Objective

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

- Understand how climate change impacts energy systems and why energy transition is •
.essential
- .Analyse renewable energy technologies and their role in decarbonising economies •
- .Explore key drivers, barriers, and enablers of the energy transition across regions •
- .Evaluate national and international climate policies and their influence on energy strategy •
- Examine how innovation, digitalisation, and new business models are transforming the •
.sector
- Develop organisational or policy-level action plans for accelerating energy transition •
- .Strengthen resilience in energy systems and infrastructure to adapt to climate impacts •

Audience

:This course is ideal for

- .Energy professionals, project managers, and engineers •
- .Sustainability and environmental managers •
- .Government officials and policy advisors •

- .Corporate climate and ESG strategists •
- .Academics and researchers in energy and climate studies •
- .Consultants and advisors in green energy markets •
- .NGO representatives and climate advocates •
- .Students and early-career professionals interested in sustainability and energy policy •

Training Methodology

The course is delivered through expert-led presentations, collaborative workshops, real-world case studies, group discussions, and interactive planning exercises. Participants are encouraged to apply learning to their own professional contexts, resulting in actionable and strategic outcomes

Summary

The global shift toward low-carbon, sustainable energy systems is one of the most critical responses to the climate crisis. This comprehensive training course explores the dynamic relationship between energy transition and climate change, providing participants with the tools and insights needed to lead and support climate-aligned energy transformation across sectors

Focusing on renewable energy, innovation, energy efficiency, and policy frameworks, this course equips participants with practical knowledge to design and implement energy transition strategies that contribute to climate mitigation and adaptation. Through case studies, interactive discussions, and strategic planning activities, learners will gain a forward-looking understanding of the evolving global energy landscape

Course Content & Outline

Section 1: Climate Change and the Urgency of Energy Transition

- .Scientific overview: the climate crisis and global warming trends •
- .Greenhouse gas emissions and their link to energy systems •
- .The global energy mix: fossil fuels, renewables, and transition pressures •

- .Climate risks to energy infrastructure: physical, operational, and financial •
- .Global climate leadership: success stories and emerging models •
- The role of energy systems in both mitigation and adaptation strategies •

Section 2: Renewable Energy Technologies and System Integration

- :Overview of key renewable energy sources •
- Solar PV and CSP .1
- Onshore and offshore wind .2
- Hydropower and pumped storage .3
- Sustainable bioenergy and biomass .4
- Geothermal systems .5
- .Integration challenges and grid reliability •
- .Energy storage solutions: batteries, thermal storage, hydrogen •
- .Sector coupling: electrification of transport, buildings, and industry •
- .Best practices from global renewable energy projects •
- Group activity: comparing renewable options for different regions •

Section 3: Policies, Incentives, and Global Climate Frameworks

- .International climate agreements: from Kyoto to the Paris Agreement •
- .Nationally Determined Contributions (NDCs) and policy obligations •
- .National energy transition strategies and regional roadmaps •
- :Tools for enabling clean energy finance •
- Carbon pricing mechanisms .1
- Renewable energy subsidies and tax credits .2
- Green bonds and public-private partnerships .3
- Regulatory coherence and institutional coordination .4
- Case studies: regulatory frameworks that accelerated clean energy transitions •

Section 4: Innovation, Efficiency, and Emerging Technologies

- Role of energy efficiency in reducing demand and emissions •
- :Digital transformation in the energy sector •
- Smart grids .1
- AI and predictive maintenance .2

:Next-generation technologies •

Green hydrogen .1

(Carbon capture and storage (CCS .2

(Small modular nuclear reactors (SMRs .3

Decentralised energy and prosumer models •

Business model innovation and changing market structures •

Analysis: how innovation ecosystems accelerate transition •

Section 5: Strategic Planning, Risk Management, and Organisational Action

Roadmapping the energy transition: timelines, milestones, KPIs •

Organisational change and stakeholder engagement •

Climate and energy risk assessment for long-term planning •

Resilience strategies in vulnerable energy systems •

Scenario planning and futures thinking in energy strategy •

Workshop: build a customised energy transition strategy for your organisation •

Peer feedback and refinement of action plans •

Summary discussion: aligning personal and institutional roles with global goals •

Certificate Description

عند إتمام هذه الدورة التدريبية بنجاح، سيحصل المشاركون على شهادة إتمام التدريب من Holistique Training. وبالنسبة للذين يحضرون ويكلّون الدورة التدريبية عبر الإنترنّت، سيتم تزويدهم بشهادة إلكترونية (e-Certificate) من Holistique Training.

وخدمة اعتماد التطوير المهني (BAC) معتمدة من المجلس البريطاني للتقييم Holistique Training شهادات ISO 29993 أو ISO 21001 أو ISO 9001 كما أنها معتمدة وفق معايير، (CPD) المستمر.

لهذه الدورة من خلال شهادتنا، وستظهر هذه النقاط على شهادة إتمام (CPD) يتم منح نقاط التطوير المهني المستمر واحدة عن كل ساعة CPD ووفقاً لمعايير خدمة اعتماد Holistique Training. التدريب من لأي دورة واحدة نقدمها حالياً CPD حضور في الدورة. ويمكن المطالبة بحد أقصى قدره 50 نقطة.

Categories

Related Articles

Educating for Sustainability: The Promise of Renewable Energy Courses

Renewable energy education is vital for sustainable energy transitions, addressing climate change, energy security, and economic growth. Courses integrate cutting-edge technologies and interdisciplinary approaches, preparing students for diverse careers. Future trends include online learning, industry collaboration, and alignment with Sustainable Development Goals.