"الرأسمال الطبيعي والطاقة المتجددة: دورهما في التنمية المستدامة"

Duration: 5 Days

Language: ar

Course Code: IND01- 137

Objective

:Upon completion of this course, participants will be able to

- Understand the principles of natural capital and ecosystem services.
- Analyse the role of renewable energy in sustainable development.
- Integrate ecosystem service valuations into energy planning and decision-making.
- Apply tools and methodologies for assessing and managing natural capital.
- Develop strategies for sustainable energy transitions that support ecosystem resilience.

Audience

:This course is intended for

- Environmental and energy professionals seeking to expand their knowledge.
- Energy planners, sustainability consultants,
- Policymakers and government officials involved in sustainability.
- Business leaders and entrepreneurs in the renewable energy sector.
- Academics and researchers focusing on sustainable development.

- Anyone interested in the intersection of natural capital and renewable energy.

No prior GIS or ecosystem services expertise is required, though a basic understanding of .environmental science is beneficial

Training Methodology

- The course employs a mix of interactive lectures, hands-on exercises, case study analyses, and group discussions. Participants will engage in practical applications using tools like InVEST and GIS software to solidify their understanding and apply concepts to real-world scenarios. Collaborative projects and peer reviews will foster a dynamic learning environment.
- This course will enhance participants' technical skills and provide strategic insights into sustainable resource management, positioning them as leaders in sustainable development.

Summary

This comprehensive course bridges the gap between natural capital, ecosystem services, and renewable energy. It aims to equip participants with the knowledge and tools to understand and manage the interdependencies between ecosystems and energy systems, .fostering sustainable development and environmental stewardship

Course Content & Outline

Section1: Introduction to Natural Capital and Ecosystem Services

- Definitions and key concepts

- Importance of natural capital in sustainable development
- Case studies: Belize coastal zone management, Myanmar's natural capital

Section 2: Renewable Energy Fundamentals

- Types of renewable energy: solar, wind, hydro, and biomass
- Benefits and challenges of renewable energy adoption
- Global trends and future outlook

Section 3: Tools for Assessing Natural Capital

- Introduction to InVEST and other ecosystem service valuation tools
- Data requirements and GIS applications
- Practical exercise: Using InVEST for watershed management

Section 4: Integrating Ecosystem Services into Energy Planning

- Assessing ecosystem impacts of renewable energy projects
- Mitigation and restoration strategies
- Policy frameworks and regulatory considerations

Section 5: Sustainable Energy Transitions

- Strategies for transitioning to renewable energy
- Role of policy, technology, and community engagement
- Case studies: Renewable energy projects in Europe and Mozambique

Section 6: Developing Sustainable Development Plans

- Creating integrated management plans
- Stakeholder engagement and decision-making processes
- Final project: Developing a sustainable energy plan for a chosen region

Certificate Description

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

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

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

Categories

الطاقة والنفط والغاز, المرافق والبيئة

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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.