

Design and Environment

Barcelona (Spain)

21 - 25 July 2025

UK Traininig

PARTNER



Design and Environment

Code: NC28 From: 21 - 25 July 2025 City: Barcelona (Spain) Fees: 5100 Pound

Introduction

The Design and Environment: Modern Advances course is a comprehensive program that delves into the intersection of design principles and environmental considerations in today's context. This course aims to provide participants with a thorough understanding of sustainable design and its importance in modern practices. By exploring the latest advancements in green technologies and sustainable design solutions, participants will acquire practical skills necessary for creating innovative and ecologically responsible designs.

Course Objectives

- Introduce participants to the importance of sustainable design, emphasizing its role in fostering a healthier planet.
- Explore the latest advancements in sustainable design techniques and their application in the design process.
- Provide insights into the environmental impact of design choices and strategies for minimizing negative effects.
- Develop an understanding of eco-friendly materials and energy-efficient systems essential for sustainable construction.
- Familiarize participants with the principles of biophilic design and its benefits for human well-being and the environment.
- Equip participants with tools and methodologies to integrate sustainability into the design process effectively.
- Encourage critical thinking and problem-solving skills to address complex environmental challenges through design.

Course Outlines

Day 1: Introduction to Sustainable Design

- Understanding the principles and foundations of sustainable design.
- Exploring the triple bottom line: environmental, social, and economic aspects.
- Case studies showcasing successful sustainable design practices.
- Integrating sustainability into the design process.

Day 2: Green Technologies and Innovations

- Overview of the latest advancements in green technologies and their relevance to the design and built environment.
- Renewable energy sources and their applications in sustainable design.
- Building automation and smart systems for enhanced energy efficiency.



- Sustainable transportation and mobility solutions.

Day 3: Environmental Impact and Mitigation Strategies

- Analyzing the environmental impact of design choices using life cycle assessments and carbon footprint analysis.
- Strategies for waste reduction, recycling, and upcycling in the context of sustainable design.
- Water conservation and efficient usage within the design framework.

Day 4: Eco-Friendly Materials and Systems

- Exploring sustainable materials and their properties in the context of sustainable design meaning.
- Green building materials and construction techniques that support sustainable design goals.
- Energy-efficient HVAC Heating, Ventilation, and Air Conditioning systems for healthier indoor environments.
- Best practices for ensuring indoor environmental quality.

Day 5: Biophilic Design and Future Trends

- Understanding the concept of biophilic design and its myriad benefits.
- Designing with nature: strategies for integrating natural elements into the built environment.
- Future trends and emerging technologies shaping the landscape of sustainable design.
- Developing a personal action plan for implementing sustainable design practices.

Conclusion

This course serves as a vital introduction to sustainable design, providing participants with the knowledge necessary to pursue sustainable design certifications and contribute to environmentally friendly practices.

By understanding sustainable design principles and methods, participants will be equipped to make impactful decisions in their professional roles, ultimately advancing the field of sustainable design and construction.



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