

BLENDLED LEARNING SUITE

SOIL AND GROUNDWATER RISK ASSESSMENT

www.claire.co.uk/elearning

In association with leading industry experts, CL:AIRE has added to its interactive suite with the development of a new course; Soil and Groundwater Risk Assessment. This course is aimed at foundation and intermediate level.

OVERVIEW

This course presents the key stages to soil and groundwater risk assessment. It underpins risk based management of soil and groundwater contamination and also informs sustainable management solutions.

COURSE STRUCTURE

This course consists of 12 short video presentations with online audio, a recommended reading list, and two interactive assessments. Upon successful completion of both assessments, users receive a CPD certificate.

Introduction to Soil and Groundwater Risk Assessment	Problem Formulation and the Conceptual Site Model
Tier 1 Screening – Generic Quantitative Risk Assessment	Tier 2 – Detailed Quantitative Risk Assessment
Human Health QRA – Exposure Modelling	Human Health QRA – Toxicity Assessment & Risk Characterisation
Ecological Risk Assessment	Water Resources Risk Assessment
Assessing Uncertainty	Risk Evaluation
Risk Management Strategies	Verification

OBJECTIVES

- Understand why it is important to carry out a risk assessment when assessing soil and groundwater contamination
- Describe how to formulate the problem and how to develop a conceptual site model
- Understand why we have screening levels and how they should be used
- Understand the principles behind human health quantitative risk assessment
- Understand the principles behind ecological and water resources risk assessment
- Understand the importance of assessing uncertainty when evaluating risks and developing management strategies
- Demonstrate that the risk has been reduced

COST

£50 + VAT (15% Member discount). Further discounts are available for orders over 50 units

CONTACT

+44 (0) 207 299 4253

enquiries@claire.co.uk

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SUSTAINABLE REMEDIATION APPRAISAL

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In association with leading industry experts, CL:AIRE has added to its interactive suite with the development of a new course; Sustainable Remediation Appraisal. This course is aimed at foundation and intermediate level.

OVERVIEW

This course presents an overview of sustainable remediation appraisal from a review of the basic concepts and definitions, providing guidance on practical application and an introduction to commonly used techniques. The output is an appreciation of the principles and practice of sustainable remediation applied to project life-cycles.

COURSE STRUCTURE

This course consists of 11 short video presentations with online audio, a recommended reading list, and two interactive assessments. Upon successful completion of both assessments, users receive a CPD certificate.

Introduction to Sustainable Remediation

Problem Definition

Implementing Sustainable Remediation in Projects

Qualitative Appraisal

Cost-Benefit Analysis (CBA)

Sustainable Remediation Frameworks

Sustainability Indicators for Remediation Projects

Best Management Practices (BMP)

Multi-Criteria Analysis (MCA)

Life-Cycle Analysis (LCA)

OBJECTIVES

- Define sustainable remediation and understand the difference between sustainable and green remediation
- Understand and appreciate the frameworks that have been developed to help implement sustainable remediation
- Identify environmental, social, and economic indicators and metrics and give examples of each
- Integrate sustainability at any part of the project life-cycle
- Describe the range of approaches and tools that may be used in the sustainable remediation process and understand some of the strengths and limitations of each

COST

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