€TRAINING

Environmental Pollution By Using GPR And Syscal R2

1 - 5 September 2024
Istanbul (Turkey)

Environmental Pollution By Using GPR And Syscal R2

REF: S2365 DATE: 1 - 5 September 2024 Venue: Istanbul (Turkey) - Fee: 5850 Euro

Introduction:

This training program equips participants with the knowledge and practical skills necessary for assessing and mitigating environmental pollution using cutting-edge geophysical technologies. It empowers environmental professionals to make informed decisions and take proactive measures in safeguarding ecosystems and public health against the adverse effects of pollution.

Program Objectives:

At the end of this program, participants will be able to:

- Utilize Ground Penetrating Radar GPR and Syscal R2 effectively for environmental pollution assessment.

- Apply principles and techniques learned to conduct comprehensive pollution surveys and mapping.

- Interpret GPR and Syscal R2 data accurately to identify pollution sources and hotspots.

- Implement fieldwork strategies and safety protocols for efficient data collection.

- Generate detailed reports and communicate findings to stakeholders for informed decision-making.

Targeted Audience:

- Environmental engineers and consultants.

- Geologists and geoscientists.

- Pollution control and remediation professionals.

- Government regulators and environmental inspectors.

- Researchers and academics in the field of environmental science and geophysics.

Program Outlines:

Unit 1:

Introduction to Environmental Pollution Assessment with GPR and Syscal R2:

- Overview of environmental pollution sources and impacts.

- Introduction to Ground Penetrating Radar GPR technology.

- Understanding the functionalities and applications of Syscal R2.

- Importance of environmental assessments in pollution mitigation.

- Case studies illustrating the effectiveness of GPR and Syscal R2 in pollution detection.

Unit 2:

Principles of Ground Penetrating Radar GPR:

- Basic principles and operation of GPR.

- Interpretation of GPR data for pollution assessment.

- Factors influencing GPR data accuracy and resolution.

- Fieldwork techniques and data collection strategies.

- Hands-on exercises for GPR data processing and analysis.

Unit 3:

Application of Syscal R2 in Environmental Pollution Mapping:

- Overview of Syscal R2 instrumentation and capabilities.

- Mapping subsurface pollution using electrical resistivity imaging.

- Integration of Syscal R2 data with GPR for comprehensive pollution assessment.

- Data interpretation methodologies for pollution hotspot identification.

- Case studies demonstrating successful pollution mapping using Syscal R2.

Unit 4:

Field Techniques for Environmental Pollution Surveys:

- Planning and executing field surveys for pollution assessment.

- Utilization of GPR and Syscal R2 in field data collection.

- Best practices for site characterization and sampling.

- Real-time data acquisition and quality control measures.

- Safety protocols and environmental regulations compliance during fieldwork.

Unit 5:

Data Analysis and Reporting in Environmental Pollution Studies:

- Data processing techniques for GPR and Syscal R2 datasets.

- Integration of geophysical data with environmental monitoring data.

- Statistical analysis and interpretation of pollution assessment results.

- Preparation of comprehensive reports and presentations.

- Communication of findings to stakeholders and decision-makers.