Training Course on Brownfield Site Restoration and Remediation

Professional Development Training Course Outline

Category	Development	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

As global populations expand and urbanization accelerates, the need for **revitalizing contaminated and underutilized lands** has become more pressing than ever. This **Training Course on Brownfield Site Restoration and Remediation** is designed to equip professionals with essential knowledge and actionable skills to reclaim brownfield sites through innovative **remediation technologies**, **environmental risk assessment**, and **sustainable redevelopment strategies**. With a strong focus on **compliance, risk-based solutions, and stakeholder engagement**, this course aligns with current industry demands and international regulatory standards.

Participants will gain hands-on understanding of **site characterization, contamination profiling, ecological restoration**, and **green infrastructure integration** for safe reuse. Whether working in environmental consulting, government regulation, urban planning, or development, this course provides comprehensive knowledge on **soil and groundwater remediation**, **post-remediation monitoring**, and **smart land reuse**, driving transformation from pollution to opportunity.

Programme Curriculum

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Course Objectives

1. Conduct **Phase I and II Environmental Site Assessments (ESAs)**.
2. Identify and analyze **soil and groundwater contamination sources**.
3. Implement **in-situ and ex-situ remediation technologies**.
4. Evaluate **human and ecological risk factors** in contaminated sites.
5. Apply **green and nature-based remediation techniques**.
6. Navigate **environmental compliance and regulatory frameworks**.
7. Use **GIS mapping and remote sensing tools** in site assessment.
8. Design **remediation action plans (RAPs)** with sustainable goals.
9. Manage **remediation project timelines, costs, and deliverables**.
10. Engage communities and stakeholders for **public support**.
11. Incorporate **climate resilience and sustainability in site reuse**.
12. Monitor **post-remediation site performance and reporting**.
13. Review **global case studies on successful brownfield redevelopment**.

Organizational Benefits

- Strengthen compliance with **environmental regulations** and reduce legal risk.
- Improve land value and urban development opportunities through **land reclamation**.
- Promote corporate sustainability through **green redevelopment practices**.
- Enhance staff capability in **innovative remediation strategies**.
- Foster organizational credibility in **environmental stewardship**.

Target Participants

1. Environmental Scientists
2. Civil and Environmental Engineers
3. Government Environmental Officers
4. Real Estate and Urban Developers
5. Project Managers
6. Environmental Consultants
7. Urban Planners and Architects
8. Sustainability Coordinators

Course Outline

Module 1: Introduction to Brownfields

- Definition and classification of brownfields
- Common contaminants and exposure pathways
- Economic and social implications

- Regulatory overview
- Environmental liabilities and risk

Module 2: Environmental Site Assessments

- Phase I ESA: Scope and methodology
- Phase II ESA: Sampling and lab analysis
- Site conceptual modeling
- Historical data and environmental records
- Site prioritization and ranking

Module 3: Contamination Profiling and Risk Assessment

- Soil and groundwater contaminants
- Toxicological data and standards
- Human health and ecological risk models
- Risk communication strategies
- Risk-based decision making

Module 4: Remediation Planning and Design

- Developing Remedial Action Plans (RAPs)
- Feasibility study of treatment options
- Remediation cost analysis
- Regulatory approvals and permits
- Selecting sustainable remediation techniques

Module 5: Soil Remediation Techniques

- Soil vapor extraction (SVE)
- Bioremediation and composting
- Soil washing and stabilization
- Thermal treatment methods
- Soil excavation and replacement

Module 6: Groundwater Remediation Techniques

- Pump-and-treat systems
- Air sparging and chemical oxidation
- Permeable reactive barriers (PRBs)
- Monitored natural attenuation (MNA)
- Emerging nanotech remediation

Module 7: Stakeholder Engagement and Legal Compliance

- Legal frameworks and international standards
- Community engagement and public consultation
- Conflict resolution in brownfield projects
- Environmental insurance and liability coverage
- Ethical issues in remediation

Module 8: Post-Remediation Monitoring and Redevelopment

- Long-term monitoring programs

- Institutional controls and land use restrictions
- Redevelopment planning and green reuse
- Site closure documentation
- Performance reporting and evaluation

Training Methodology

- Expert-led interactive sessions
- Case studies from successful global projects
- Group-based practical simulations
- Field video analysis and interactive visuals
- Knowledge assessments and action planning

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org **or call** *+254769199797*

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price

23 Nov 2026	27 Nov 2026	Online	$1,000
23 Nov 2026	27 Nov 2026	Physical	$1,500
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$4,500
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$6,000

Ready to enroll or request a customized program? Book online or contact us:

Register Online Now

Email: info@fineskilltrainingcenter.com | Website: www.fineskilltrainingcenter.com