

CHARTERED 
INSTITUTE OF PROFESSIONAL CERTIFICATIONS

ADVANCED SITE REMEDIATION TECHNIQUES FOR SOIL AND GROUNDWATER CLEANUP

**Fully Accredited
By:**

Chartered Institute of
Professional Certifications

CPD
Certification Service

PROGRAM OVERVIEW



According to an extensive evaluation by the United States Environmental Protection Agency (EPA), it was determined that improper management of hazardous waste sites contributes to over \$50 billion per year in environmental damage and health risks. Furthermore, the EPA has estimated that there are over 400,000 brownfield sites in the USA requiring investigation and cleanup, underlining the critical need for advanced site remediation techniques in soil and groundwater cleanup.

This certified program is designed to bolster your proficiency and expertise in advanced site remediation techniques and management approaches that are essential for addressing the complex challenges faced in soil and groundwater cleanup in the United States. You will gain an in-depth understanding of **cutting-edge methodologies in remediation, such as pump-and-treat, bioremediation, thermal treatment, and chemical oxidation**. The program will also thoroughly dissect the wide array of approaches used in **site investigation, encompassing phase assessments, risk evaluations, cost-benefit analyses, and their applicability across various states** in the U.S. Special emphasis will be given to adapting remediation techniques to localized geophysical conditions, taking into account regional variances in soil types, groundwater levels, and contaminant properties.

ACCREDITATIONS



4.8



4.6



PROGRAM OVERVIEW



Moreover, you will acquire the crucial skills to effectively navigate and interpret the myriad of U.S. laws, codes, and regulations governing site remediation, such as the **Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)**, and the **Resource Conservation and Recovery Act (RCRA)**. This program will provide unparalleled insights into common challenges, expensive mistakes, legal complexities, and notable success stories in the field of site remediation. With a focus on innovation, project management, sustainability, and comprehensive cost analysis, you will be well-equipped to manage the complexities involved in soil and groundwater remediation projects.

Upon successful completion of the program, you will earn the **Certification in Advanced Site Remediation Techniques for Soil and Groundwater Cleanup**. This distinguished certification will make you adept in addressing complex contamination challenges, employing state-of-the-art cleanup methodologies, and ensuring compliance with regulatory standards. Globally recognized and valued, this industry-recognized certification holds lifelong validity and underscores your expertise and commitment to environmental restoration.

ACCREDITATIONS



4.8



4.6



KEY SKILLS YOU WILL GAIN

From This Program



**REGULATORY COMPLIANCE
SITE INVESTIGATION
RISK ASSESSMENT
SITE ASSESSMENT**

**DATA INTERPRETATION
CONTAMINATION CHARACTERIZATION
ADVANCED SAMPLING TECHNIQUES
REMEDATION TECHNOLOGIES**

**RISK MANAGEMENT
DATA MANAGEMENT
ENVIRONMENTAL MONITORING**

**REGULATORY FRAMEWORK FOR SITE
REMEDiation
REMEDiation PLAN DEVELOPMENT
SITE CLOSURE PROCEDURE
SITE ASSESSMENT STRATEGY
SITE STRATEGIC PLAN**

**DECISION MATRIX
REMEDIAL IMPLEMENTATION APPROACH**

YOUR FACULTY DIRECTOR



David Joseph Watterson

Renowned Environmental & Regulatory Specialist

With a distinguished career spanning over 37 years, **Joe Watterson is a renowned authority in the field of site remediation.** He embarked on his professional journey as an environmental driller, where he honed his skills in soil boring and groundwater monitoring across various landscapes. A significant milestone in Joe's career came when he shifted to become an industry environmental representative. In this role, he enhanced his remediation capabilities through **partnerships with as many as 10 different consulting organizations over a 20-year period.** By skillfully orchestrating these multifaceted teams and **critically evaluating various remedial strategies, Joe developed an extensive knowledge of specialized investigative and remediation technologies.** His aptitude for transforming these technologies into implementable action plans has consistently earned approval from relevant regulatory bodies. Joe's depth of expertise has also led him to be a **frequent contributor and a published author** in the **prestigious Groundwater Monitoring & Remediation journal.**

OUR PARTICIPANTS

Over 70% of FORTUNE 500 Companies Have Attended Our Accredited Programs Before



Goldman Sachs



SAMSUNG



ExxonMobil



BURBERRY



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IKEA



VOLVO



HYUNDAI



Pfizer

Life is our life's work



Nestlé®



PROGRAM AGENDA

MODULE 1 - SITE ASSESSMENT PLANNING

- Site assessment strategy
- Workplan development
- Permitting and regulatory constraints
- Regulatory engagement plan

MODULE 2 - SITE ASSESSMENT IMPLEMENTATION & EVALUATION

- Long lead considerations
- Field characterization
- Evaluating assessment results
- Reporting
- End state vision

MODULE 3 - DEVELOPING A SITE STRATEGIC PLAN

- Site strategic plan
- Living evergreen plan

MODULE 4 - INITIAL TECHNOLOGY SCREENING

- Remedial objectives and screening criteria
- Common technologies
- New or emerging technologies

MODULE 5 - UTILIZING A DECISION MATRIX

- Establish decision criteria
- Generating alternatives & trade-offs
- Evaluating alternatives

MODULE 6 - REMEDIAL PLAN DEVELOPMENT

- Closure criteria and exit strategy lesson
- Develop remedial approach & design lesson
- Long lead considerations/logistics

MODULE 7 - IMPLEMENTATION STRATEGY

- Remedial implementation approach lesson
- Deliverables & final work products lesson
- Performance monitoring

MODULE 8 - SITE PREP & PRE- EXECUTION ACTIVITIES

- Confirm completion of long lead tasks lesson
- Readiness
- Site preparation and mobilization



PROGRAM AGENDA

MODULE 9 - EXECUTION OF REMEDIAL PLAN/ IMPLEMENTATION OF DESIGN

- Monitoring progress of implementation, evaluate, and adjust

MODULE 10 - OM&M PLANNING, IMPLEMENTATION & EVALUATION

- Develop OM&M plan lesson
- Initiate remedy lesson
- Remedy evaluation & optimization
- Post remedial monitoring

MODULE 11 - CLOSURE PLANNING AND IMPLEMENTATION

- Closure request
- Site exit implementation lesson
- Post decommissioning/abandonment documentation

YOUR CHARTER DESIGNATION



Chartered Institute of Professional Certification's programs are unique as they provide you with a professional charter designation and mark that can be used across your lifetime once you have completed our programs.

Upon successfully attending this program, you will be awarded with the **Certification in Advanced Remediation Techniques for Soil and Groundwater Cleanup** that can be used in your resume, CV, and other professional credentials. This certification is industry-recognized with lifelong validity.

Globally demanded and recognized, this certification will amplify your professional qualifications and demonstrate your specialized knowledge and skills necessary to navigate the regulatory landscape, implement effective remediation strategies, and address the unique challenges associated with soil and groundwater cleanup. Developed by the **Chartered Institute of Professional Certifications**, the content of this program has been independently accredited by the **CPD Certification Service** as adhering to the highest standards of continuing professional principles.

ABOUT US

49,525

Business Leaders Have Attained Their Chartered Certifications Since 2009

390

Certified and Fully Accredited Programs

87%

Chartered Leaders Have Reported Career Promotions and Enhancements

Chartered Institute of Professional Certifications

All of Chartered Institute of Professional Certifications program are fully accredited programs. The professional charter and designations are trademarked credentials that can only be used by professionals who have completed and passed our accredited program. It is also independently accredited by CPD as adhering to the highest standards of continuing professional principles.

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CONTACT US TODAY

We Thank You for Your Ongoing Support
of Our Programs

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