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# **CERCLA Education Center (CEC) *and* Environmental Response Training Program (ERTP)**

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## **Combined Training Course Catalog**

**Office of Superfund and Emergency Management (OSEM)  
Response Readiness & Development Division  
Workforce Readiness & Training Branch**

**April 2026**



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**U.S. Environmental Protection Agency's  
CERCLA Education Center (CEC)  
Training Program Catalog – FY 2026**

For the current schedule of CEC courses, visit [www.trainex.org](http://www.trainex.org).

*Note: Courses not available for public or non-EPA staff registration are excluded from public views in the current CEC course schedule at [www.trainex.org](http://www.trainex.org). In addition, EPA region-specific course deliveries are not visible to other regions or the public.*

**Questions and Course Registration Details:**

Contact CEC COR identified at the end of this document.

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## Introduction

This U.S. Environmental Protection Agency CERCLA Education Center (CEC) provides course descriptions and registration links for all CEC courses regularly being offered through The Training Exchange (Trainex): [https://trainex.org/bypartner\\_view.cfm?partner=CEC](https://trainex.org/bypartner_view.cfm?partner=CEC).

The courses are divided into three instructional types: Classroom, Virtual, and Online.

**Classroom** courses are delivered by one or more instructors in person, usually in a client provided classroom or conference room. Some classroom courses have webinars that the students are required to view prior to the classroom delivery.

**Virtual** courses are courses that are attended remotely via a video conferencing platform, such as Microsoft Teams. To the extent practicable, virtual courses are designed to accomplish the same learning objectives as the classroom version.

**Online** courses are self-paced training courses and learning modules that are usually of relatively short duration. Online courses usually contain quizzes and “learning checks”, which must be correctly answered to demonstrate successful accomplishment of the learning objectives. CEC online courses and modules are hosted on the Environmental Response Training Program Virtual University (ERTPVU): <https://www.ertpvu.org/AvailableOnlineCourses.aspx>.

### Classroom and Virtual Course List

The CEC courses currently available for delivery are listed in alphabetical order. Classroom courses are offered in an in-person setting. Some classroom courses also include pre-recorded webinars that students must view prior to the classroom delivery. Virtual courses are offered in a video conference setting.

| Classroom and Virtual Course List                                           | Course Length                                 | Target Audience                                       | Virtual Course Available? |
|-----------------------------------------------------------------------------|-----------------------------------------------|-------------------------------------------------------|---------------------------|
| ARARs Academy                                                               | 10 hours<br>pre-recorded<br>webinars + 2 days | EPA RPMs                                              |                           |
| Best Practices for Site Characterization throughout the Remediation Process | 3 days                                        | EPA Superfund staff, State and Tribal agencies        |                           |
| DOT Refresher Training                                                      | 6 – 8 hours                                   | EPA OSCs and RPMs                                     | Yes                       |
| Federal Facility RPM                                                        | 3 days                                        | EPA FF RPMs                                           | Yes                       |
| Fundamentals of Superfund                                                   | 3 days                                        | EPA OSCs, RPMs and other Superfund staff              |                           |
| Groundwater High-Resolution Site Characterization                           | 4 hours<br>pre-recorded<br>webinars + 3 days  | EPA Superfund staff, State and Tribal agencies        |                           |
| Hazard Ranking System                                                       | 4 days                                        | EPA SAMs, NPL Coordinators, State and Tribal agencies |                           |
| Incremental Sampling                                                        | 2 days                                        | EPA Superfund staff, State and Tribal agencies        |                           |
| Knowing and Using the NCP                                                   | 2 days                                        | EPA OSCs and RPMs                                     |                           |
| Legal Issues for RPMs and OSCs                                              | 1 day                                         | EPA OSCs and RPMs                                     |                           |
| OSC 201                                                                     | 2 days                                        | EPA OSCs                                              |                           |
| OSC Warrant Officer Training                                                | 3.5 days                                      | EPA OSCs                                              |                           |
| Preliminary Assessment/<br>Site Inspection                                  | 3 days                                        | EPA SAMs, NPL Coordinators, State and Tribal agencies |                           |
| RCRA Generator Training                                                     | 4 – 8 hours                                   | EPA OSCs and RPMs                                     | Yes                       |
| Remedial Design/Remedial Action                                             | 2 days                                        | EPA RPMs                                              |                           |
| Remedial Process Training                                                   | 10 hours pre-recorded<br>webinars + 3 days    | EPA RPMs                                              |                           |
| Removal Process                                                             | 4.5 days                                      | EPA OSCs                                              |                           |
| Removal Process for RPMs                                                    | 2 days                                        | EPA RPMs                                              |                           |
| RPM 201                                                                     | 3 days                                        | EPA RPMs                                              |                           |



| Classroom and Virtual Course List            | Course Length                 | Target Audience                                    | Virtual Course Available? |
|----------------------------------------------|-------------------------------|----------------------------------------------------|---------------------------|
| RPM 301                                      | 6 hours live webinar + 2 days | EPA RPMs                                           |                           |
| Superfund 101                                | 5 days                        | EPA OSCs, RPMs, and other Superfund staff          |                           |
| Superfund Essentials                         | 1 day                         | New EPA Superfund staff, state and tribal agencies | Yes                       |
| Superfund Overview                           | 2.5 hours                     | New EPA staff                                      | Yes                       |
| Waste Treatment, Transportation and Disposal | 2.5 days                      | EPA OSCs and RPMs                                  |                           |



### Online Course List

Online courses are offered as an on-demand webinar hosted through ERTPVU.

| Online Course List                                                | Course Length  |
|-------------------------------------------------------------------|----------------|
| Heavy Equipment Overview Training for Site Managers (Yellow Iron) | 1 hour 30 mins |
| Basics of Superfund                                               |                |
| Module 1 - Introduction and Overview of CERCLA                    | 20 mins        |
| Module 2 – Statutory and Regulatory Framework                     | 38 mins        |
| Module 3 – Overview of the Superfund Process                      | 65 mins        |
| Module 4 – Liability and Enforcement                              | 18 mins        |
| Module 5 – Community Involvement                                  | 17 mins        |
| Module 6 – Federal Facilities                                     | 13 mins        |
| Module 7 – Course Complete                                        | 5 mins         |



## Classroom and Virtual Courses

### ARARs Academy

Delivery: Pre-recorded Webinars and Classroom

Duration: 10 hours pre-recorded webinars; 2-day in-person classroom

Target audience: EPA RPMs

Prerequisites: *Superfund 101* and *Remedial Process Training*

The *ARARs Academy* focuses on applicable or relevant and appropriate requirements (ARARs) in the remedial program, building upon ARAR material presented in other CEC courses such as *Fundamentals of Superfund* and *Remedial Process*. The course examines ARARs in more detail and applies concepts to site-specific situations.

#### Course Objectives:

- Define important terms and apply them when evaluating ARARs.
- Describe the regulatory requirements of the common federal statutes often considered ARARs for Superfund actions and explain when they may be an ARAR.
- Describe how ARARs are documented in the Record of Decision (ROD), including how the selected remedy complies with ARARs.
- Explain how state laws and regulations can be ARARs.
- Describe the six ARAR waivers and how each might be used.

The *ARARs Academy* is a beginner- to intermediate-level course recommended for EPA RPMs with at least six months' experience, particularly those who have assisted other RPMs with Superfund sites or are preparing to lead Superfund site projects. It also serves as a valuable review for more experienced RPMs. Additionally, the course may benefit EPA site attorneys, other Superfund staff, and state and tribal personnel supporting Superfund sites.



## **Best Practices for Site Characterization throughout the Remediation Process**

Delivery: Classroom

Duration: 3 days

Target audience: EPA Superfund staff, State and Tribal agencies

Prerequisites: None

The *Best Practices for Site Characterization throughout the Remediation Process* course focuses on how to streamline projects legally, technically, and cost-effectively, based on best management practices (BMPs) implemented by the U.S. Environmental Protection Agency (EPA) and its partners. The course covers 1) effective sampling plan design, data collection, analysis, and management strategies at various entry points in a typical project timeline; 2) emerging quality assurance and control methods for evaluating data sufficiency and optimizing project sequencing; and 3) use of a systematic planning process to involve key stakeholders and develop the conceptual site model (CSM). Additionally, the course outlines components for effective dynamic work strategies (DWS), such as performance verification, using collaborative data sets, sample variability management, and streamlined work plans. It also explores adaptive management concepts and methods for controlling and directing work efforts to maximize resources and lower project costs, including unitized costing, project ceilings, and focused characterization.

Case studies, examples, and tools are highlighted to aid in application throughout major project phases. Various tools such as CSMs are examined to support management of uncertainties and continuous stakeholder engagement for site projects.

### **Course Objectives:**

- Understand how to integrate best practices into traditional project activities.
- Effectively collect and communicate critical project information.
- Design and use of effective dynamic work strategies to support project management.
- Recognize and address challenges in implementing a dynamic work strategy.
- Apply BMPs to enhance all phases of the environmental cleanup life cycle.

The *Best Practices for Site Characterization throughout the Remediation Process* is recommended for EPA site managers and other Superfund support staff who would like to learn about site strategies, systematic planning, CSMs and dynamic work strategy. Additionally, the course may be valuable to personnel from other federal agencies, states, and tribes involved in supporting Superfund sites.



## **DOT Refresher Training**

Delivery: Classroom, Virtual

Duration: 6 to 8 hours

Target audience: EPA OSCs and RPMs

Prerequisites: None

The *DOT Refresher Training* provides an overview of the United States Department of Transportation (DOT) regulations for shipping hazardous materials. Participants will gain insights into the Hazardous Materials Table (HMT), proper shipping names, hazard classes, marking and labeling, shipping papers, packing groups, and security protocols. The training fulfills the requirements specified in 49 CFR 172 Subpart H, including participant testing to ensure compliance and understanding.

### **Course Objectives:**

- Understand DOT regulations related to the shipping of hazardous materials.
- Learn to effectively use the HMT to identify and apply proper shipping labeling and hazard classes.
- Learn about security requirements and protocols for the safe transportation of hazardous materials.
- Successfully complete testing to fulfill the training requirements outlined in 49 CFR 172 Subpart H.

*DOT Refresher Training* is recommended for EPA Superfund On-Scene Coordinators (OSCs) and Remedial Project Managers (RPMs) that transport hazardous materials from their sites. This class is open to EPA staff only.

## **Federal Facility RPM**

Delivery: Classroom, Virtual

Duration: 3 days

Target audience: EPA Federal Facility RPMs

Prerequisites: *Fundamentals of Superfund* and *Remedial Process Training* (suggested)

*Federal Facility RPM* is geared toward EPA Federal Facility (FF) Remedial Project Managers (RPMs) to facilitate an understanding of the unique aspects of the FF RPM role. The course highlights how FF RPM responsibilities and authorities differ from those of a private or Fund-financed Superfund EPA RPM. Participants explore the history and complexity of legacy Department of Defense (DOD) and Department of Energy (DOE) sites, gain exposure to the institutional knowledge of experienced FF RPMs, and review statutory and regulatory authorities, executive orders, and policies important to Federal Facilities.

### Course Objectives:

- Discuss and examine best practices for managing the unique circumstances at Federal Facility National Priority List (NPL) sites.
- Identify the programmatic differences between Federal Facility and private and Fund-financed Superfund sites.
- Discuss the Federal Facility Agreement (FFA), including negotiating and implementing its provisions.
- Evaluate the unique technical and management issues presented by Federal Facilities.
- Discuss current issues associated with emerging contaminants that may be present at Federal Facilities.
- Obtain valuable materials and references for managing a Federal Facility NPL site.

The *Federal Facility RPM* course is tailored for EPA FF RPMs across all experience levels. However, those with one to two years of experience who have completed the *Fundamentals of Superfund* and *Remedial Process Training* courses may find it particularly beneficial. Additionally, this course may be valuable to other EPA RPMs, DOD/DOE RPMs, EPA Resource Conservation and Recovery Act (RCRA) personnel, state personnel, and tribal RPMs and managers involved in managing Federal Facilities.

## Fundamentals of Superfund

Delivery: Classroom

Duration: 3 days

Target audience: EPA OSCs, RPMs, and other Superfund staff

Prerequisites: None

*Fundamentals of Superfund* provides an overview of the purpose, legal framework, and implementation of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and the National Oil and Hazardous Substances Pollution Contingency Plan (NCP). The course (1) explores the origin, accomplishments, and future directions of the Superfund program; (2) outlines the roles of the On-Scene Coordinators (OSCs) and Remedial Project Managers (RPMs) as defined by laws, regulations, policy, and guidance, including a comparison of authorities and liabilities; and (3) covers the integral components of the removal, remedial, and enforcement programs, emphasizing the major responsibilities of OSCs and RPMs in managing Superfund responses, site cleanups, and enforcement activities.

### Course Objectives:

- Understand the evolution of the Superfund program.
- Understand the statutory and regulatory basis for the authorities of OSCs and RPMs.
- Learn about the three types of response activities defined under CERCLA.

*Fundamentals of Superfund* is recommended for EPA On-Scene Coordinators (OSCs), Remedial Project Managers (RPMs), as well as other programmatic and field support staff, including Headquarters regional coordinators and Special Teams members. This course is also valuable to state and tribal personnel supporting Superfund sites. It serves as a prerequisite for EPA employees who would like to attend the *Removal Process* and *Remedial Process Training* courses.

## **Groundwater High-Resolution Site Characterization**

Delivery: Pre-recorded Webinars and Classroom

Duration: 4 hours pre-recorded webinars; 3 days classroom

Target audience: EPA Superfund staff, state and tribal agencies

Prerequisites: None

The *Groundwater High-Resolution Site Characterization (HRSC)* course focuses on groundwater characterization techniques and addresses (1) the impacts of subsurface heterogeneity on the investigation and cleanup of groundwater and related media, (2) the necessity for scale-appropriate measurements and adequate data density, and (3) the tools and strategies available to mitigate the impacts of subsurface heterogeneity. Upon completing this course, participants will be equipped with the knowledge to enhance their subsurface investigation approaches and develop more realistic and comprehensive conceptual site models (CSMs). CSMs developed based on HRSC strategies and tools will reduce site uncertainty, refine the remedy selection process for groundwater remedies, and facilitate the evaluation, design, and implementation of targeted in situ and ex situ groundwater remedies.

### **Course Objectives:**

- Understand the advantages of HRSC and application of HRSC to characterize integrated media, including groundwater, soil, soil vapor, surface water, sediments and bedrock.
- Explore the sources and attributes of subsurface heterogeneity and their impact on hydrogeology, contaminant fate and transport, and source and plume dynamics.
- Define and use scale-appropriate measurements, adequate data density, and collaborative data sets.
- Evaluate tools suitable for subsurface investigations across diverse environments, including shallow and deep unconsolidated settings, fractured and porous media, and the groundwater-surface water interface.
- Develop effective strategies for implementing and conducting HRSC investigations.
- Manage and visualize HRSC data to enhance decision-making processes.
- Apply HRSC principles to remedy design, implementation and optimization.

*Groundwater High-Resolution Site Characterization* is recommended for EPA, federal, state, and tribal technical project managers, practitioners and other stakeholders involved in groundwater investigation and remediation.



## **Hazard Ranking System**

Delivery: Classroom

Duration: 4 days

Target audience: EPA Site Assessment Managers, NPL coordinators, state and tribal agencies

Prerequisites: None

*Hazard Ranking System (HRS)* provides a detailed review of the HRS model and how the model is applied to various site conditions. The course starts with an overview of key provisions of CERCLA and the general response process established under the National Oil and Hazardous Substances Pollution Contingency Plan (NCP), followed by discussion on procedures and requirements for conducting site assessments and using the HRS to score sites for placement on the NPL. Focus is on explaining and examining (1) HRS scoring factor (likelihood of release, waste characterization, and targets) per pathway (groundwater, surface water, soil exposure, and air); (2) HRS rules for scoring sites accurately including addressing releases of radionuclides; (3) HRS package preparation process including elements of a complete package; (4) HRS package documentation and analytical data quality needed; and (5) available guidance and resources to support package preparation. After taking this course, participants will be equipped to prepare HRS packages for the National Priorities List (NPL) and to plan and implement preliminary assessments (PA) and site inspections (SI) to address future HRS scoring issues.

### **Course Objectives:**

- Explain the site assessment process under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and the role of HRS.
- Define and explain the HRS in detail, including the overall structure and elements of the HRS and how a site score is calculated.
- Illustrate a general approach to scoring sites using the HRS and preparing an HRS package.
- Identify and use guidance and software to successfully prepare an HRS package.

The *HRS* course is recommended for EPA, state and tribal personnel who are required to compile, draft, and review preliminary assessments (PA), site inspections (SI), and HRS documentation records and packages submitted for sites proposed for the NPL.

## Incremental Sampling

Delivery: Classroom

Duration: 2 days

Target audience: EPA Superfund staff, state and tribal agencies

Prerequisites: None

*Incremental Sampling* provides an overview of incremental sampling (IS) concepts to address soil heterogeneity and ensure that soil samples accurately represent the site. The course uses the seven-step data quality objectives (DQO) process to explore the elements of planning and implementing IS designs. The course uses lecture and interactive scenarios to practice and discuss sampling design using the DQO process.

### Course Objectives:

- Understand how soil heterogeneity and sampling methodology impact data variability.
- Gain introductory skills necessary for planning, designing, collecting, and analyzing incremental soil samples with robust data quality considerations.
- Integrate systematic approaches for tool selection, field sampling, processing, and subsampling to produce representative soil samples that support defensible decision-making.
- Calculate common statistical parameters that support quality control and analysis in incremental sampling.
- Design an IS approach following the seven-step DQO process.

The *Incremental Sampling* course is recommended for EPA, federal, state, and tribal personnel who support site investigation programs.

## Knowing and Using the National Contingency Plan

Delivery: Classroom

Duration: 2 days

Target audience: EPA OSCs and RPMs

Prerequisites: None

*Knowing and Using the National Contingency Plan* provides an in-depth exploration of the critical authorities and responsibilities of the On-Scene Coordinators (OSCs) and Remedial Project Managers (RPMs) within the framework of the National Oil and Hazardous Substances Pollution Contingency Plan (NCP). The course offers a thorough discussion of the NCP's response framework, complemented by case studies and interactive sessions on specialized topics. Participants also gain insights into legal duties and responsibilities under the Oil Pollution Act and Stafford Act. Key topics include Access Issues, Interagency Agreements, Applicable or Relevant and Appropriate Requirements (ARARs), the Administrative Record, Pollution Reports (POLREPs), and Trustee Consultations. Participants will have the opportunity to engage in site-specific discussions, analyzing challenges within the NCP framework and fostering practical solutions and strategies.

### Course Objectives:

- Understand the NCP removal actions authorities available to OSCs and RPMs.
- Explore legal responsibilities under the Oil Pollution Act and Stafford Act.
- Examine Special Topics such as access issues and ARARs.
- Identify and examine issues frequently faced by OSCs and RPMs in their everyday work.

The *Knowing and Using the National Contingency Plan* (NCP) course is recommended for new EPA Superfund OSCs and RPMs seeking to understand the NCP. It also serves as a valuable refresher for more experienced OSCs and RPMs. This class is open to EPA staff only.

## Legal Issues for RPMs and OSCs

Delivery: Classroom

Duration: 1 day

Target audience: EPA OSCs and RPMs

Prerequisites: None

*Legal Issues for RPMs and OSCs* focuses on key legal aspects related to entering private property for implementing the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) response actions and efficiently managing site records. Topics to be covered include (1) understanding the sources and limitations of entry authority under the U.S. Constitution (due process, takings and free speech), CERCLA and the National Oil and Hazardous Substances Pollution Contingency Plan (NCP); (2) strategies for obtaining consent from property owners for site access; (3) methods for documenting consent to enter properties; (4) clarifying what constitutes a record; and (5) tips for effectively managing email communications. Failure to address the legal issues surrounding private property entry and site record maintenance may lead to significant adverse consequences, including loss of cost recovery opportunities, claims against the government, and personal lawsuits against the Remedial Project Manager (RPM) or On-Scene Coordinator (OSC). This course provides OSCs and RPMs with the necessary procedures for obtaining property access under various circumstances and emphasizes the importance of maintaining organized and up-to-date site records.

### Course Objectives:

- Learn the role of the U.S. Constitution, CERCLA, the NCP, delegation, guidance and site-specific documents in obtaining access to private property to conduct work under CERCLA.
- Understand the process for obtaining and documenting access to private property under diverse conditions including, but not limited to, dealing with uncooperative property owners.
- Recognize the role of EPA counsel in assisting RPMs and OSCs with lawful property access.
- Learn the importance of managing site records, including emails, to support successful cost recovery actions.

The *Legal Issues for RPMs and OSCs* course is recommended for new EPA Superfund OSCs and RPMs to gain an understanding of the laws, delegations, and guidance for their roles. It also serves as a valuable review for more experienced OSCs and RPMs. This class is open to EPA staff only.

## OSC 201

Delivery: Classroom

Duration: 2 days

Target audience: EPA OSCs

Prerequisites: *Superfund 101* and *Removal Process*

*OSC 201* is designed to equip On-Scene Coordinators (OSCs) with the skills necessary to handle everyday removal action site activities. The course explores effective conceptual tools for managing factors that influence cleanup operations at removal sites. It prepares OSCs for the challenges they will face during a removal action and an emergency response. Emphasizing a hands-on approach, the course focuses on removal and emergency response management from the perspective of field operations, aiming to achieve response action goals and offers practical opportunity to apply the skills through a response case study.

### Course Objectives:

- Understand how to apply a Removal Site Strategy Model to a project.
- Develop project management skills, including skills in project organization, resource and personnel forecasting, meeting planning, site activity documentation, and schedule and cost tracking.
- Learn to effectively navigate daily removal process tasks and adapt to changing site circumstances.
- Understand the essential elements of conducting removal actions in alignment with the National Oil and Hazardous Substances Pollution Contingency Plan (NCP).

*OSC 201* is an intermediate-level training course recommended for EPA OSCs with one to two years of experience, particularly those who have worked in the field on removal actions and have assisted other OSCs. This course is ideal for OSCs preparing to take the lead in conducting a large-scale removal action. It also serves as a valuable review for more experienced OSCs. Additionally, *OSC 201* may benefit other EPA removal program personnel, including Headquarters regional coordinators, enforcement personnel, Removal Managers and Special Teams members.

## OSC Warrant Officer Training

Delivery: Classroom

Duration: 3.5 days

Target audience: EPA OSCs

Prerequisites: Must be a certified COR

*OSC Warrant Officer Training* offers a comprehensive overview of the contracting and program authorities granted to a warranted On-Scene Coordinator (OSC) under the National Oil and Hazardous Substances Pollution Contingency Plan (NCP). The course provides in-depth information on key contracting elements, effective contract management practices, and discussion on contracting vulnerabilities. It also explains the policies and procedures for utilizing the various procurement tools under the Delegated Procurement Authority (DPA) and other mechanisms available to OSCs during emergency and time-critical removal actions. A response case study is included, allowing participants to apply the skills learned during the training.

### Course Objectives:

- Comprehend the responsibilities and authorities assigned to OSCs for directing emergency response and removal actions.
- Gain knowledge of fundamental contracting principles.
- Understand contracting tools and techniques authorized for use under the OSC's DPA.
- Apply the tools and techniques in a removal action scenario.

The *OSC Warrant Officer Training* course is tailored for experienced EPA Superfund OSCs and who are pre-designated for emergency response or other field assignments where independent time-critical or emergency decisions may be required. The *OSC Warrant Officer Training* may also benefit EPA project officers and contracting officers supporting the removal and emergency response program. This class is open to EPA staff only.

**Additional prerequisite information:** Before enrolling in the *OSC Warrant Officer Training*, the EPA OSC must be a certified Contracting Officer's Representative (COR). Becoming a certified FAC-COR Level II is a mandatory requirement for an EPA OSC to request the warrant after taking the *OSC Warrant Officer Training*. Requirements for FAC-COR Level II certifications can be accessed at <https://work.epa.gov/fac-programs/fac-cor-level-ii-initial-certification>. The FAC-COR certification trainings are listed in the *How to Request a FAC-COR Level II Certification* document referenced on that webpage. Courses must be completed at least 7 business days before attending the *OSC Warrant Officer Training*. A copy of the COR guidelines is available at <https://work.epa.gov/fac-programs/fac-cor-certification-requirements>.



## Preliminary Assessment/ Site Inspection Training

Delivery: Classroom

Duration: 3 days

Target audience: EPA Site Assessment Managers, NPL Coordinators, state and tribal agencies

Prerequisites: None

*Preliminary Assessment/Site Inspection (PA/SI) Training* introduces the Superfund site assessment process, focusing on the preliminary assessment and site inspection phases. Based on key provisions of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and the response process established by the National Oil and Hazardous Substances Pollution Contingency Plan (NCP), the course guides participants through conducting remedial preliminary assessments (PAs) and site inspections (SIs) at CERCLA-regulated sites, including identifying potential threats that may warrant a removal action. Topics include 1) procedures and considerations when performing a remedial PA, including assessing appropriateness, planning and execution, preparing a preliminary Hazard Ranking System (HRS) score, and documenting results for site decision-making; (2) detailed steps for conducting a remedial SI, including addressing health and safety considerations for field activities, establishing data quality objectives and developing sampling strategies for HRS scoring, validating data, and preparing a final report to support decision-making; and (3) relevant EPA guidance, policies, and resources, such as the basic structure and scoring factors of the HRS, and using EPA's Quickscore tool for site investigations.

### Course Objectives:

- Explain the circumstances under which site assessments are performed, including when, where, why, and how they are conducted under CERCLA authorities.
- Prepare for, conduct, and report the findings of a remedial PA.
- Determine the need for, conduct, and document the results of a remedial SI.
- Identify and use guidance, software, and other tools to effectively meet the requirements for conducting a remedial PA and SI.

The *PA/SI* course is recommended for EPA, state and tribal personnel responsible for compiling, drafting, and reviewing documentation records and packages for preliminary PA, SI, and HRS submissions for sites proposed for the NPL.



## **RCRA Generator Training**

Delivery: Classroom, Virtual

Duration: 4 to 8 hours

Target audience: EPA OSCs and RPMs

Prerequisites: None

The *RCRA Generator Training* provides an overview of the Resource Conservation and Recovery Act (RCRA) and the implementation of RCRA hazardous waste regulations by the U.S. EPA and authorized state programs. This course covers essential topics, including determining whether a waste qualifies as hazardous, understanding hazardous waste generator requirements, and regulations related to land disposal restrictions. Participants will also learn about the identification and management of universal waste, used oil, and special rules and policies governing hazardous remediation waste. This training fulfills the annual training requirements for hazardous waste generators, as specified in 40 CFR 262.16 (b)(9)(iii) and 40 CFR 262.17(a)(7), and includes participant testing to ensure compliance.

### Course Objectives:

- Understand RCRA regulations related to hazardous waste classification, handling, and compliance with land disposal restrictions.
- Learn processes for identifying and managing universal waste and used oil.
- Learn rules and policies for effectively managing hazardous remediation waste.
- Successfully complete testing to fulfill training requirements outlined by relevant CFR sections.

*RCRA Generator Training* is recommended for EPA Superfund OSCs and RPMs that generate and manage hazardous wastes at their sites. This class is open to EPA staff only.

## Remedial Design/Remedial Action

Delivery: Classroom

Duration: 2 days

Target audience: EPA RPMs

Prerequisites: *Remedial Process Training*

*Remedial Design/Remedial Action (RD/RA)* focuses on the RD/RA phase of Superfund projects, addressing the objectives, issues, and challenges faced by Remedial Project Managers (RPMs) during response planning and implementation. The course provides a comprehensive examination of the RD/RA process, providing practical guidance to effectively implement the design and construction phases of a Superfund cleanup. It emphasizes the crucial role of the RPM in planning RD/RA projects, highlighting their responsibilities in managing contracting, scheduling, budgeting, and other aspects of the effort; coordinating activities with states and tribes; and conducting effective community relations efforts. Participants have the opportunity to work through realistic case studies that illustrate actual issues and problems that may arise.

### Course Objectives:

- Identify steps for implementing and completing an RD/RA project under Superfund.
- Describe the overall effort required to conduct an RD/RA project and anticipate potential difficulties that may arise.
- Describe the role of the RPM as the project manager.
- Apply the skills developed to real-life situations.

The *RD/RA* course is recommended for EPA RPMs with two or more years of experience or those currently involved or soon to be involved in an RD/RA project. It also serves as a valuable refresher for more experienced RPMs, and may benefit other Federal Agency, state and tribal site managers involved in RD/RA projects.

## Remedial Process Training

Delivery: Pre-recorded Webinars and Classroom

Duration: 10 hours pre-recorded webinars; 3 days classroom

Target audience: EPA RPMs

Prerequisites: *Superfund 101*

*Remedial Process Training* provides a comprehensive examination of the technical and regulatory challenges that Remedial Project Managers (RPMs) must face while coordinating, directing, and reviewing remedial response efforts at Superfund sites. The course covers key topics such as risk management, smart scoping, remedial technologies, applicable or relevant and appropriate requirements (ARARs), Superfund decision documents, remedial design and remedial action (RD/RA) and community involvement. It reviews requirements for all phases of the remedial process, including Remedial Investigation/Feasibility Study (RI/FS), remedy selection, RD/RA, operation and maintenance, site close out, five-year reviews, and remedy optimization. The course also discusses the principles of community involvement, the role of community involvement plans, and methods of addressing community-related issues, including conflict management and effective negotiation. Participants engage in a series of exercises that allows use of newly acquired skills and knowledge to a hypothetical site, simulating the real-life experiences of RPMs in the Superfund program.

### Course Objectives:

- Learn to identify and incorporate the various regulatory and policy aspects of the Superfund program.
- Plan and implement remedial response activities at Superfund sites using effective methods.
- Integrate community involvement activities into the remedial process, ensuring effective communication and engagement.
- Practice applying the concepts covered during the course through exercises designed to simulate real-life scenarios.

The *Remedial Process Training* course is a beginner-level training designed for EPA Superfund RPMs with one to three years of experience in the Superfund program, particularly those responsible for or needing to understand remedial response activities under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). Additionally, the course may be valuable to other EPA remedial program staff as well as state and tribal RPMs.

## Removal Process

Delivery: Classroom

Duration: 4.5 days

Target audience: EPA OSCs

Prerequisites: *Superfund 101*

*Removal Process* provides EPA On-Scene Coordinators (OSC) and other personnel supporting the removal program - including Headquarters regional coordinators, enforcement personnel, and Special Teams members - with fundamental information and practical skills needed to effectively plan, conduct and support removal actions, which respond to releases of hazardous substances, pollutants or contaminants and oil discharges under the National Oil and Hazardous Substances Pollution Contingency Plan (NCP). Structured around the NCP framework, the course guides participants through the sequence of events, starting with site discovery and demonstrating how the enforcement process is integrated into various phases of the removal process. This training enhances an OSC's ability to effectively utilize the Incident Command System/Unified Command (ICS/UC) and clarifies the roles and responsibilities of an OSC during emergency responses to hazardous substance releases. The course examines the organization of the ICS/UC and provides an in-depth discussion of its planning and support functions. Participants are introduced to available tools and resources and are challenged to apply the knowledge gained to realistic exercises and case studies.

### Course Objectives:

- Review the statutory and regulatory requirements, including response authority, public participation requirements, and regulations governing contracting services.
- Learn the step-by-step process of conducting a removal action.
- Comprehend the authorities and limitations of an OSC during a removal action.
- Understand the ICS/UC and an OSC's role during an emergency response.
- Use newly developed knowledge and skills to address real-life challenges.

*Removal Process* is a beginner-level course recommended for EPA OSCs responsible for or needing to understand removal response activities under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), the Oil Pollution Act (OPA), Clean Water Act (CWA) and the NCP. It may also be valuable to other EPA removal program personnel, such as planners, Removal Managers and Special Teams members.

## Removal Process for RPMs

Delivery: Classroom

Duration: 2 days

Target audience: EPA RPMs

Prerequisites: *Fundamentals of Superfund*

*Removal Process for RPMs* focuses on the various aspects of the removal process and methods for integrating removal actions at National Priorities List (NPL) sites to expedite Superfund response activities. The course provides a step-by-step review of removal actions, from initial site activities through closeout, helping Remedial Project Managers (RPMs) understand their role in the Superfund cleanup program. It explores approaches to evaluating and initiating removal actions, with an emphasis on challenges such as meeting applicable or relevant and appropriate requirements (ARARs) during removal actions. Participants engage in discussions about actual issues and problems that may arise during Superfund removal actions and explore resolutions. They are challenged to apply the information gained during the course to realistic exercises and case studies.

### Course Objectives:

- Understand the laws, regulations, policies, and processes involved in Superfund removal actions.
- Identify removal authorities, recognize situations in which removal actions are appropriate, and initiate removal actions.
- Summarize the steps necessary to implement the removal action and complete the required closeout procedures.
- Apply the RPM's newfound knowledge to address real-life situations.

The *Removal Process for RPMs* course is recommended for EPA Superfund RPMs involved in planning and conducting removal actions.

## RPM 201

Delivery: Classroom

Duration: 3 days

Target audience: EPA RPMs

Prerequisites: *Superfund 101* and *Remedial Process Training*

*RPM 201* prepares Remedial Project Managers (RPMs) to tackle the challenges they will face during all phases of a remedial action. The course covers consideration and management of common issues or concepts at sites such as vapor intrusion, sediment removal, contaminated groundwater plumes, and strategic sampling approaches. Additionally, the course emphasizes project management concepts such as smart scoping for environmental investigation and best practices for data management. The course features case studies that allow participants to apply the skills learned and provides time for RPMs to ask specific questions about their current sites, as well as discuss emerging technical and programmatic policies and guidance from Headquarters. Note course content /modules vary from one course delivery to another, based on the host region's training needs.

### Course Objectives:

- Gain insights into managing common issues or concepts at remedial action sites, such as contaminated sediment remediation and groundwater restoration.
- Enhance project management skills, including resource and cost forecasting, meeting planning, site activity documentation, and schedule and cost tracking.
- Learn effective strategies for communicating various site issues to residents and communities.
- Understand how to incorporate optimization into new and existing remedial actions.

*RPM 201* is an intermediate-level training course recommended for EPA Superfund RPMs with at least two years' experience, particularly those who have assisted other RPMs with remedial actions or are now preparing to lead a remedial action. The course may also be valuable to EPA remedial program staff as well as state and tribal site managers.

Additional Information: The Remedy Selection for Groundwater Restoration module (6 hours) is offered at every delivery. Course customization is available through these modules:

- Contaminated Sediment Remediation (6 hours)
- Introduction to ARARs (6 hours)
- Addressing Mine Sites under Superfund (3.5 hours)
- Strategic Sampling Approaches (4 hours)
- Smart Scoping an Environmental Investigation (4 hours)
- Vapor Intrusion (2.5 hours)
- Best Practices for Data Management (2.5 hours)
- Federal Facility Basics for RPMs (3.5 hours)
- Site Specific Scenarios (1.5 hours)

## **RPM 301**

Delivery: Pre-recorded Webinars and Classroom

Duration: 8 hours pre-recorded webinars; 2 days classroom

Target audience: EPA RPMs

Prerequisites: *Superfund 101, Remedial Process Training and RPM 201*

*RPM 301* prepares Remedial Project Managers (RPMs) to address the challenges of managing Superfund sites effectively. This course enhances RPMs' facilitation, team-building, and leadership skills, encouraging participants to apply these skills to common issues at large, complex sites, older sites, and sites with remedy effectiveness concerns. Participants and instructors will also explore project management best practices for working in teams and virtual work environments.

### Course Objectives:

- Develop skills to build, lead, and facilitate project teams more effectively.
- Identify and manage challenges and issues associated with large, complex sites.
- Recognize and address issues specific to older sites.
- Identify and manage remedy effectiveness issues.
- Utilize best practices to manage projects successfully.

*RPM 301* is an intermediate- to advanced-level training course recommended for EPA Superfund RPMs with at least five years of experience and who are leading the activities at Superfund sites. This course may also be valuable to other technical project team members from EPA and state agencies.

## Superfund 101

Delivery: Classroom

Duration: 5 days

Target audience: EPA OSCs, RPMs and other Superfund staff

Prerequisites: None

*Superfund 101* consists of two introductory-level courses: *Fundamentals of Superfund* and the *Enforcement Process Overview*.

*Fundamentals of Superfund* provides an overview of the purpose, legal framework, and implementation of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and the National Oil and Hazardous Substances Pollution Contingency Plan (NCP). The course (1) explores the origin, accomplishments, and future directions of the Superfund program; (2) outlines the roles of the On-Scene Coordinators (OSCs) and Remedial Project Managers (RPMs) as defined by laws, regulations, policy, and guidance, including a comparison of authorities and liabilities; and (3) covers the integral components of the removal, remedial, and enforcement programs, emphasizing the major responsibilities of OSCs and RPMs in managing Superfund responses, site cleanups, and enforcement activities.

### Course Objectives:

- Understand the evolution of the Superfund program.
- Understand the statutory and regulatory basis for the authorities of OSCs and RPMs.
- Learn about the three types of response activities defined under CERCLA.

*Enforcement Process Overview* provides an introduction to EPA's Superfund enforcement process. The course covers response actions and enforcement authorities under Superfund, illustrating the relationship between major enforcement actions and remedial and removal actions. It defines Superfund enforcement goals and principles; identifies objectives of Superfund enforcement reforms; and highlights current EPA enforcement priorities. Participants explore the four classes of Potentially Responsible Parties (PRPs), their defenses and exemptions to liabilities, and major discretionary enforcement policies. The course also examines EPA's cost recovery strategy, the roles of administrative and judicial law in the enforcement process and introduces various enforcement tools such as alternative dispute resolution used in the settlement process.

### Course Objectives:

- Learn about the goals, priorities, and actions of the Superfund enforcement program.
- Understand EPA's fundamental enforcement principles and policies, the four types of PRPs, common defenses against liability, and other enforcement policies.
- Gain insight into the enforcement process and the roles of states, tribes, federal agencies and communities in this process.
- Develop the ability to use available tools to encourage settlements.



*Superfund 101* is recommended for EPA OSCs and RPMs who are new to the Superfund program. Additionally, the course may be valuable to EPA site attorneys, other Superfund staff, and personnel from other federal agencies, states and tribes involved in supporting Superfund sites.



## Superfund Essentials

Delivery: Classroom, Virtual

Duration: 1 day (if virtual, 8 hours over four 2-hour webinars)

Target audience: New EPA Superfund staff, state and tribal agencies

Prerequisites: None

*Superfund Essentials* introduces key components of the Superfund program. The course (1) describes the purpose of, legal framework, and implementation of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and the National Oil and Hazardous Substances Pollution Contingency Plan (NCP); (2) outlines the removal and remedial processes and corresponding roles of On-Scene Coordinators (OSCs) and Remedial Project Managers (RPMs); (3) highlights the community involvement program and its role in Superfund cleanup activities; and (4) provides an overview of site assessment and other Superfund program topics.

### Course Objectives:

- Understand the provisions and requirements of CERCLA and the NCP.
- Follow the assessment and response process for conducting removal and remedial actions.
- Understand the roles of OSCs and RPMs in hazardous waste cleanup actions.
- Describe the community involvement program and their part in cleanup actions.
- Highlight the site assessment process and other relevant topics to the Superfund program.

*Superfund Essentials* is recommended for EPA staff who are new to the Agency or to the Superfund program that require a basic understanding of the Superfund program. *Superfund Essentials* may also be valuable to personnel at other federal agencies, state and tribes supporting Superfund sites.

Additional Information: This course does not meet the training requirements for EPA Superfund OSCs and RPMs. Regional Superfund programs may offer this awareness-level course to their stakeholders.



## **Superfund Overview**

Delivery: Virtual

Duration: 2.5 hours

Target audience: New EPA staff

Prerequisites: None

*Superfund Overview* provides a broad overview of the Superfund program, covering its core objectives, historical evolution, and the current technical and programmatic concerns. The webinar (1) introduces the key statutory provisions of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and the regulatory framework of the National Oil and Hazardous Substances Pollution Contingency Plan (NCP) and (2) describes the removal, remedial, and enforcement response authorities, detailing their implementation, and outlines CERCLA and NCP provisions that mandate state involvement and community engagement in response activities.

*Superfund Overview* is recommended for staff new to EPA, student interns and those new to the Superfund program. It also serves as a good refresher for more experienced Superfund staff.

Additional Information: Upon request, a classroom or virtual session can also be tailored for EPA managers, spanning 2.5 to 4 hours to allow for discussion and review of program initiatives, technical matters, and other priority topics.

## Waste Treatment, Transportation and Disposal

Delivery: Classroom

Duration: 2.5 days

Target audience: EPA OSCs and RPMs

Prerequisites: None

*Waste Treatment, Transportation and Disposal* focuses on specific technical and regulatory issues that removal and other personnel must address when treating, transporting and disposing of waste. The course provides guidance on overseeing the major steps involved in procuring cost-effective and efficient treatment, transportation and disposal of waste. It delves into the complex definitions of solid and hazardous waste, offering real-life examples to help determine whether wastes are classified as RCRA hazardous during a removal action. The course highlights some obvious and subtle aspects that can enhance the waste transportation and disposal process. Participants will gain insights from experienced professionals on identifying and analyzing special waste types and arranging for treatment, transportation and disposal.

The course discusses oversight of the major steps in procuring cost-effective and efficient treatment, transportation and disposal of waste. The course explores the complex definitions of solid and hazardous waste and provides real-life examples of how to decide whether wastes are RCRA hazardous during a removal action. The course stresses some obvious and other less obvious aspects helpful in improving the transportation and disposal process. Participants will obtain information from experienced professionals about the process of identifying and analyzing special waste types and to arrange for treatment, transportation and disposal of waste.

### Course Objectives:

- Learn a step-by-step approach to the treatment, transportation and disposal of waste.
- Discover practical recommendations for improving the treatment, transportation and disposal process.
- Master information about the identification and analysis of waste.

*Waste Treatment, Transportation and Disposal* is an advanced-level training recommended for EPA Superfund On-Scene Coordinators (OSCs) and other EPA removal program personnel responsible for planning the treatment, transportation and disposal of wastes generated from removal actions. This course may also be valuable to other EPA staff, including Remedial Project Managers (RPMs), site assessment managers, remedial program staff, and members of Special Teams.



## Online Courses

### [Heavy Equipment Overview Training \(Yellow Iron\)](#)

Delivery: Online via ERTPVU

Duration: Approximately 1.5 to 2 hours

Target audience: EPA OSCs and RPMs

Prerequisites: None

*Heavy Equipment Overview Training* provides a general introduction to the most common heavy equipment, often referred to as “yellow iron” that site managers may use during response actions. The course presents a guided tour of the typical heavy equipment available for hazardous waste site cleanup actions, along with pre-use and operational health and safety considerations. While examples and scenarios in this training focus on removal-based actions, the equipment and concepts presented are relevant to all site managers and beneficial for those unfamiliar with heavy equipment.

#### Course Objectives:

- Identify key considerations for selecting equipment suitable for different types of response actions.
- Understand health and safety considerations for working with heavy equipment, including pre-use and operational aspects.
- Recognize the most common types of heavy equipment that may be needed for a response action, including alternative equipment names, operational descriptions, equipment attachments, and operational constraints and challenges.
- Identify some specialized equipment that site managers may require for less common response actions and unique circumstances.

This course is designed for new EPA site managers with less than two years of experience and limited field exposure. More experienced site managers may find this course useful as a refresher or as a resource for information on different types of heavy equipment needed for response actions.



## **Basics of Superfund**

Delivery: Online via ERTPVU

Duration: Approximately 3 hours

Target audience: EPA Staff

Prerequisites: None

The *Basics of Superfund* course provides an overview of the purpose, legal framework, and implementation of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), and highlights activities performed under the Superfund program. The course is divided into six modules that must be completed sequentially. Credit is received for completing each individual module, and a certificate is provided upon finishing all six modules and launching module 7.

### **Basics of Superfund 1 — Introduction and Overview of CERCLA**

Explains the origin and key provisions of CERCLA, offering an overview of the cleanup process and history of the Superfund program.

### **Basics of Superfund 2 — Statutory and Regulatory Framework**

Explores the statutory and regulatory framework for response actions, including statutory and regulatory authorities, identifying the lead agency, and the roles of states, tribal governments, potentially responsible parties, and the public. It also covers funding response actions and the relationship of CERCLA to other laws.

### **Basics of Superfund 3 — Overview of the Superfund Process**

Details removal and remedial authorities and outlines the responsibilities of the On-Scene Coordinator (OSC) and Remedial Project Manager (RPM). Topics include the definition and types of removal actions; oil removals; phases of the remedial process; general requirements for a remedial action; and management of documentation and records.

### **Basics of Superfund 4 — Liability and Enforcement**

Explains enforcement authorities and processes, including an overview of the enforcement program; the definition of liability; Potentially Responsible Party (PRP) identification, notification and negotiations; settlements and tools; oversight and cost recovery; and Superfund Alternative Sites.

### **Basics of Superfund 5 — Community Involvement**

Discusses EPA's community involvement program, including the role of community involvement in Superfund; planning early for meaningful engagement; implementing community involvement activities; and providing technical assistance to communities.

### **Basics of Superfund 6 — Federal Facilities**

Explains the application of CERCLA authorities at Federal facilities, including applicability; implementation of CERCLA responses; EPA oversight of cleanups at Federal facilities; Federal facilities as PRPs; and unique issues encountered at Federal facilities.

### **Basics of Superfund 7 — Course Complete**

Launch to complete the course



## **CEC Course Details**

### **CEC Course Registration and Costs**

- All CEC course hosted/sponsored registrations occur at <https://www.trainex.org/>.
- To register for CEC training courses, participants must create and maintain Student Profiles at the <https://www.trainex.org/> website.
- Some courses may be initially unavailable (upon request) for public/Non-EPA Staff registration and are therefore hidden from public view in the current CEC course schedules at: <https://www.trainex.org/>. This means a course registration link may be provided before course registration may occur for certain courses.
- Class sizes are limited based on training room capacity and course content.
- Continuous Learning Points (CLP) and Continuing Education Units (CEU) are provided for all CEC training courses. Training course completion certificates contain CLP and CEU details.
- There is no cost for CEC course offerings for Federal, State and Tribal Agency personnel, but EPA employees have priority.
- Courses are not open to academia, consultants, contractors, or any private entities.
- Other courses and/or course customizations may be developed upon request.

### **CEC Course Questions**

Contact the U.S. Environmental Protection Agency, Office of Land and Emergency Managements' (OLEM) CERCLA Education Center Training Program Contracting Officer's Representative (CEC COR) below for questions or clarification:

Barbara Charris  
CERCLA Education Center (CEC) Training Program  
U.S. Environmental Protection Agency/OLEM/OSEM  
Office: (703) 304-3444  
Email: [charris.barbara@epa.gov](mailto:charris.barbara@epa.gov)

### **Other Courses May Be Developed Upon Request**

For questions related to developing courses and/or customizing courses, contact the CEC staff identified above.

## Appendix 2



### U.S. Environmental Protection Agency's Environmental Response Training Program (ERTP) Catalog – FY 2024

For the current schedule of ERTTP courses, visit [www.ertpvu.org](http://www.ertpvu.org).

*Note<sup>1</sup>: Courses unavailable for public/non-EPA staff registration are unlisted for public view in the current ERTTP course schedules at [www.trainex.org](http://www.trainex.org).*

#### Questions and Course Registration Details:

Contact ERTTP COR's identified at the end of this document.

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<sup>1</sup> Review details on the last page for questions and course registration details



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# Introduction

This U.S. Environmental Protection Agency Environmental Response Training Program (ERTP) Catalog provides course descriptions and registration links for all ERTP courses regularly being offered through the ERTP Virtual University (ERTPVU) and The Training Exchange (Trainex).

ERTPVU: <https://www.ertpvu.org/Home.aspx>

Trainex (ERTP) Catalog: [https://trainex.org/catalog/bypartner\\_view.cfm?partner=ERTP](https://trainex.org/catalog/bypartner_view.cfm?partner=ERTP)

The courses are divided into three instructional types: Classroom, Virtual, and Online.

**Classroom** courses are delivered by one or more instructors in person, usually in a client-provided classroom or conference room. For the purposes of this catalog, some “classroom courses” include exercises and may entail outdoor skills-based activities.

**Virtual** courses are courses or exercises that are attended remotely via a video conferencing platform, such as Zoom, Skype, Adobe Connect, or Microsoft Teams. To the extent practicable, virtual courses are designed to accomplish the same learning objectives as the classroom version.

Note: Courses with hands-on skills-based learning objectives that cannot be accomplished virtually may require a supplemental in-person training segment for full equivalent course completion. Implementation of this concept is called a hybrid course delivery.

**Online** courses are self-paced training courses and learning modules that are usually of relatively short duration. Online courses usually contain quizzes and “learning checks”, which must be correctly answered to demonstrate successful accomplishment of the learning objectives. ERTP on-line courses and modules are made available through the ERTPVU.



# Classroom and Virtual Course List

Classroom courses are offered in an in-person setting.

Virtual courses are offered in a video conference setting.

| Classroom and Virtual Course List                                                                                                    | Course Length          | Virtual Course Available? |
|--------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------------------|
| <b>Air Monitoring</b>                                                                                                                |                        |                           |
| Air Monitoring for Emergency Response (AMFER)                                                                                        | 2 days                 |                           |
| Air Monitoring for Hazardous Materials (AMFHM)                                                                                       | 3 days                 |                           |
| <b>ICS Instructor Training</b>                                                                                                       |                        |                           |
| ICS Instructor Training — Adult Learning Methods (ALM)                                                                               | 1 day                  | Y                         |
| ICS Instructor Training — Train-the-Trainer Practicum                                                                                | 3 to 4 days            | Y                         |
| <b>Chemistry For Environmental Professionals (CEP)</b>                                                                               |                        |                           |
| CEP — Applied<br>CEP — Fundamentals<br><i>Delivery: Listed as two separate courses in ERTPVU and TRAINEX, but delivered together</i> | 3.5 days<br>(combined) | Y                         |
| <b>Geophysics</b>                                                                                                                    |                        |                           |
| Basic Environmental Geophysics (BEG)                                                                                                 | 2 days                 |                           |
| Introduction to Environmental Geophysics (IEG)                                                                                       | 3 days                 |                           |
| <b>Groundwater</b>                                                                                                                   |                        |                           |
| Advanced Groundwater Investigations (AGWI)                                                                                           | 1 day                  |                           |
| Introduction to Groundwater Investigations (IGWI)                                                                                    | 3 days                 |                           |
| IGWI and AGWI Combined                                                                                                               | 4 days                 |                           |
| Overview of Groundwater Investigations for Superfund – Virtual Delivery (VOGIS) (Currently being developed)                          | TBD                    | Y                         |



| Classroom and Virtual Course List                                              | Course Length                | Virtual Course Available? |
|--------------------------------------------------------------------------------|------------------------------|---------------------------|
| <b>Health and Safety</b>                                                       |                              |                           |
| EPA Office of Land and Emergency Management (Superfund) Asbestos Worker Safety | 2 days                       |                           |
| OSHA 10-Hour Construction Industry Safety Course (29 CFR 1926)                 | 1.5 days                     |                           |
| OSHA 10-Hour General Industry Safety Course (29 CFR 1910)                      | 1.5 days                     |                           |
| Hazardous Materials Technician (HMT)                                           | 3 days                       |                           |
| Health and Safety for Site Supervisors (HSESS)                                 | 1 day / session              | Y                         |
| <b>Incident Command System (ICS)</b>                                           |                              |                           |
| Assistant Safety Officer                                                       | 2 days                       | Y                         |
| Division/Group Supervisor (DIVS)                                               | 1.5 days                     | Y                         |
| ICS-300: Intermediate ICS (ICS 300)                                            | 2.5 days                     | Y                         |
| ICS-400: Advanced ICS (ICS 400)                                                | 2 days                       | Y                         |
| Incident Management Team Functional Exercise (IMTX)                            | 1 – 4 days<br>(1 day / team) | Y                         |
| <b>ICS Key Leadership Position (KLP)</b>                                       |                              |                           |
| Environmental Unit Leader (ENVL)                                               | 3 days                       | Y                         |
| Finance and Administration Section Chief (FSC)                                 | 3 days                       |                           |
| Incident Commander (IC)                                                        | 3 days                       |                           |
| Liaison Officer (LNO)                                                          | 3 days                       |                           |
| Logistics Section Chief (LSC)                                                  | 4 days                       |                           |
| Operations Section Chief (OPS)                                                 | 3 days                       |                           |
| Planning Section Chief (PSC)                                                   | 4 days                       |                           |
| Public Information Officer (PIO)                                               | 4 days                       |                           |
| Resource Unit Leader (RESL)                                                    | 4 days                       | Y                         |
| Safety Officer (SO)                                                            | 3 days                       |                           |
| Situation Unit Leader (SITL)                                                   | 3 days                       | Y                         |



| Classroom and Virtual Course List                                                                                           | Course Length | Virtual Course Available? |
|-----------------------------------------------------------------------------------------------------------------------------|---------------|---------------------------|
| Oil Response Training (National and Regional)                                                                               |               |                           |
| Oil Pollution Act 101 (OPA 101) (National, Regional)                                                                        | 4 days        | Y                         |
| Combined Fast/Slow Water (National, Regional)                                                                               | 3 to 5 days   |                           |
| Slow/Backwater Practical (Regional)                                                                                         | 5 days        |                           |
| Radiation                                                                                                                   |               |                           |
| Advanced Radiation Safety for EPA Emergency Responders (ARSFER)                                                             | 2 days        |                           |
| Radiation Safety — Overview for Environmental Professionals                                                                 | 3 days        |                           |
| Radiation Safety — Practical Applications                                                                                   |               |                           |
| <i>Delivery: Listed as two separate courses in ERTPVU and TRAINEX but delivered together</i>                                |               |                           |
| Remediation                                                                                                                 |               |                           |
| Environmental Remediation Technologies (ERT)<br><i>(Course is temporarily on hold for update and revision)</i>              | n/a           | Y                         |
| <i>Note: Self-paced modules for seven Environmental Remediation Technologies courses are available online at ERTPVU.org</i> |               |                           |
| Risk Assessment                                                                                                             |               |                           |
| Introduction to Ecological Risk Assessment Guidance for RCRA/Superfund (ERAGS)                                              | 2.5 days      |                           |
| Introduction to Risk Assessment Guidance for Superfund (IRAGS)                                                              | 2.5 days      |                           |
| Introduction to Risk Assessment Guidance with Expanded Eco-Risk (IRAGEE)                                                    | 3.5 days      |                           |
| Sampling                                                                                                                    |               |                           |
| Sampling for Hazardous Materials (SFHM)                                                                                     | 2 days        |                           |
| Uniform Federal Policy — Quality Assurance Project Plan (UFP-QAPP)                                                          |               |                           |
| Uniform Federal Policy — Quality Assurance Project Plan (UFP-QAPP)                                                          | 8 hours       | Y                         |
| Other Courses May Be Developed Upon Request                                                                                 |               |                           |



## Online Course List

| Online Course List                                                        | Course Length  |
|---------------------------------------------------------------------------|----------------|
| <b>CERCLA Education Center</b>                                            |                |
| Heavy Equipment Overview Training for Site Managers (Yellow Iron)         | 1 hour 30 mins |
| <b>Chemistry for Environmental Professionals</b>                          |                |
| Understanding a Contractor's Analytical Data Report                       | 1 hour 15 mins |
| <b>Contract Laboratory Program (CLP)</b>                                  |                |
| Fundamentals Part 1: Introduction to the CLP                              | 35 mins        |
| Fundamentals Part 2: CLP Products and Services                            | 35 mins        |
| <b>Environmental Remediation Technologies</b>                             |                |
| Basic Water Treatment                                                     | 1 hour         |
| Capping and Containment                                                   | 1 hour         |
| Chemical Reactions and Separations                                        | 1 hour         |
| In-situ Treatments Part 1                                                 | 1 hour         |
| In-situ Treatments Part 2                                                 | 1 hour         |
| Monitored Natural Attenuation                                             | 1 hour         |
| Thermal Treatment                                                         | 1 hour         |
| <b>Health and Safety</b>                                                  |                |
| H&SEHT Biological Hazards                                                 | 1 hour         |
| H&SEHT Chemical and Biological Warfare Agents, Toxic Industrial Chemicals | 1 hour         |
| H&SEHT Confinement and Containment                                        | 1 hour         |
| H&SEHT Decontamination                                                    | 1 hour         |
| H&SEHT EPA's Emergency Responder Health and Safety Manual                 | 1 hour         |
| H&SEHT Hazard Communication Standard                                      | 1 hour         |
| H&SEHT Hazard Recognition                                                 | 1 hour         |
| H&SEHT Health and Safety Plans (HASP)                                     | 1 hour 30 mins |
| H&SEHT Incident Command System Overview                                   | 1 hour         |
| H&SEHT Levels of Protection                                               | 1 hour         |

| Online Course List                                                                                                       | Course Length  |
|--------------------------------------------------------------------------------------------------------------------------|----------------|
| H&SEHT Radiation Exposure Hazards and Monitoring                                                                         | 1 hour 30 mins |
| H&SEHT Reference Materials and Resources                                                                                 | 1 hour         |
| H&SEHT Respirator Selection and Use                                                                                      | 1 hour 30 mins |
| H&SEHT Respiratory Protection                                                                                            | 1 hour 30 mins |
| H&SEHT Site Entry and Reconnaissance                                                                                     | 1 hour         |
| H&SEHT Toxicology                                                                                                        | 1 hour 30 mins |
| <b>ICS — General Staff</b>                                                                                               |                |
| Burn Rates — An ICS FSC Workgroup Presentation                                                                           | 1 hour 15 mins |
| <b>RCRA</b>                                                                                                              |                |
| RCRA Underground Storage Tank 101                                                                                        | 2 hours        |
| <b>Remediation</b>                                                                                                       |                |
| Electroplating Processes and Cleanups                                                                                    | 1 hour 30 mins |
| <b>Superfund</b>                                                                                                         |                |
| Basics of Superfund 1 — Introduction and Overview of CERCLA                                                              | 20 mins        |
| Basics of Superfund 2 — Statutory and Regulatory Framework                                                               | 38 mins        |
| Basics of Superfund 3 — Overview of the Superfund Process                                                                | 1 hour 5 mins  |
| Basics of Superfund 4 — Liability and Enforcement                                                                        | 18 mins        |
| Basics of Superfund 5 — Community Involvement                                                                            | 17 mins        |
| Basics of Superfund 6 — Federal Facilities                                                                               | 13 mins        |
| Basics of Superfund 7 — Course Complete                                                                                  | 5 mins         |
| Superfund Enforcement — Module 1: Overview                                                                               | 30 mins        |
| Superfund Enforcement — Module 2: The Cleanup Process                                                                    | 1 hour         |
| Superfund Enforcement — Module 3: Liability                                                                              | 1 hour         |
| Superfund Enforcement — Module 4: The Enforcement Process                                                                | 45 mins        |
| Superfund Enforcement — Module 5: Administrative Settlement Agreements and Orders on Consent (ASAOs) and Consent Decrees | 30 mins        |
| Superfund Enforcement — Module 6: Settlement Incentives and Special Settlements                                          | 30 mins        |



| Online Course List                                     | Course Length |
|--------------------------------------------------------|---------------|
| Superfund Enforcement — Module 7: Cost Recovery        | 30 mins       |
| Superfund Enforcement — Module 8: Cross-Cutting Issues | 30 mins       |



# Classroom and Virtual Courses

## Air Monitoring

### Air Monitoring for Emergency Response

ERTPVU: <https://www.ertpvu.org/ClassroomCourseDetail.aspx?id=25>

Trainex: <https://trainex.org/offeringslist.cfm?courseid=439>

Delivery: Classroom

This 2-day course instructs participants in the practices and procedures for monitoring airborne hazardous materials. It is designed for personnel who evaluate airborne releases of hazardous materials. Evaluation of worker exposure to these releases is emphasized.

Topics covered include air monitoring strategies, techniques, and equipment; instrument calibration; instrument limitations; exposure guidelines; air dispersion modeling; and health-and-safety considerations. The course will include operating procedures for specific air monitoring equipment, but students are encouraged to bring their own instruments to the course. The focus is on direct-reading instruments, but air sample collection and field analytical instruments are discussed.

Instructional methods include a combination of lectures, group discussions, problem-solving sessions, and hands-on use of instruments.

After completing the course, participants will be able to:

- Properly use the following types of air monitoring equipment:
  - Combustible gas indicators
  - Oxygen monitors
  - Detector tubes
  - Toxic gas monitors
  - Photoionization detectors
  - Flame ionization detectors
- Identify the operational parameters, limitations, and data interpretation requirements for the instruments listed above, plus chemical warfare agent detectors, air sample collectors, and certain field analytical technologies
- Identify the factors to be considered in the development of air monitoring plans
- Discuss the use of air monitoring data for the establishment of personnel and operations health and safety requirements



## **Air Monitoring for Emergency Response (continued)**

ABIH (American Board of Industrial Hygienists) has previously awarded CM (Certification Maintenance) credit for this event. The current event contains 16 hours which can be claimed from ABIH for CM credit.

Continuing Education Credits: 1.6

This course is not open to consultants, contractors, or any private entities.

This course is offered free of charge to all registrants who are confirmed to attend.



## Air Monitoring for Hazardous Materials

ERTPVU: <https://www.ertpvu.org/ClassroomCourseDetail.aspx?id=1>

Trainex: <https://trainex.org/offeringlist.cfm?courseid=22>

Delivery: Classroom

This 3-day course instructs participants in the practices and procedures for monitoring and sampling airborne hazardous materials. It is designed for personnel who evaluate releases of airborne hazardous materials. Evaluation of worker exposure to these releases is emphasized.

Topics that are discussed include air monitoring and sampling programs, techniques, and equipment; instrument calibration and limitations; exposure guidelines; air dispersion modeling; and health and safety considerations. The course will include operating procedures for specific air monitoring and sampling equipment, as well as strategies for air monitoring and sampling at abandoned hazardous waste sites and at releases of hazardous chemicals.

Instructional methods include a combination of lectures, group discussions, problem-solving sessions, and laboratory and field exercises with hands-on use of instruments.

After completing the course, participants will be able to:

- Properly use the following types of air monitoring and sampling equipment:
  - Combustible gas indicators
  - Oxygen monitors
  - Detector tubes
  - Toxic gas monitors
  - Photoionization detectors
  - Flame ionization detectors
  - Gas chromatographs
  - Sampling pumps and collection media
  - Direct-reading aerosol monitors
- Identify the operational parameters, limitations, and data interpretation requirements for the instruments listed above, plus chemical warfare agent detectors and certain field analytical technologies
- Identify the factors to be considered in the development of air monitoring and sampling plans
- Discuss the use of air monitoring data for the establishment of personnel and operations health and safety requirements



## **Air Monitoring for Hazardous Materials (continued)**

ABIH (American Board of Industrial Hygienists) has previously awarded CM (Certification Maintenance) credit for this event. The current event contains 24 hours which can be claimed from ABIH for CM credit.

Continuing Education Credits: 2.4

This course is not open to consultants, contractors, or any private entities.

This course is offered free of charge to all registrants who are confirmed to attend.



# ICS Instructor Training

## ICS Instructor Training — Adult Learning Methods

ERTPVU: <https://www.ertpvu.org/ClassroomCourseDetail.aspx?id=55> (classroom/virtual)

Trainex: <https://www.trainex.org/offeringlist.cfm?courseid=1542> (classroom)  
<https://www.trainex.org/offeringlist.cfm?courseid=1972> (virtual)

Delivery: Classroom, Virtual

This 1-day course is Part 1 of a two-part instruction plan designed for experienced EPA ICS practitioners to meet the FEMA recommendations and EPA requirements to become certified instructors of Intermediate and Advanced ICS (ICS-300/400) and EPA ICS Key Leadership Position (KLP) courses.

This course provides participants one day (8 hours) of classroom training covering adult learning theory, classroom management, exercise creation, exercise conduct, and other material that will aid the new instructor in presenting ICS classes.

Instructional methods include lectures, modeling, class discussions and exercises. Homework projects will be given, which participants must successfully complete within two weeks to receive course credit.

In Part 2, called a “Practicum”, participants will participate as an instructor trainee in the respective ICS-300/400 or KLP position course for which they have already become an experienced practitioner. Each instructor trainee will present at least one classroom lecture and facilitate at least one exercise during the course. The instructor trainee will observe and document the instructional and classroom management techniques of experienced instructors as well as be observed by them. A feedback session will be held at the end of each day of the course.

Those seeking to obtain certification in multiple ICS courses need only take this 1-day course (Part 1) once, followed by completing the practicum portion (Part 2) for each ICS course of their particular interest.

This course is intended for EPA personnel with prior training and experience in Intermediate and Advance ICS (ICS-300/400) and/or an ICS Key Leadership Position and require adult learning methods training to meet the qualifications to become EPA-certified instructors.

After completing the course, participants will be able to:

- Explain characteristics of adult learners
- Define Trainer Qualities and Behaviors that Enhance the Adult Learning Process
- Develop learning objectives
- Explain how to develop training based on objectives
- Demonstrate how to use media to enhance presentations



## ICS Instructor Training — Adult Learning Methods (continued)

- Explain how to obtain feedback from students to assess learning
- Creating and using assessment tools
- List some types of exercise and the advantages and limitations of each
- Explain the importance of logistics and planning in conducting an exercise
- Conduct an effective course exercise (to be done in the KLP course)
- Explain how to manage a classroom environment

For more information, please contact the U.S. EPA National NIMS Coordinator:

Steve Ridenour  
U.S. EPA National NIMS Coordinator  
202-564-9831  
[Ridenour.steve@epa.gov](mailto:Ridenour.steve@epa.gov)

The classroom version of this course is delivered in one day, from 8:00 a.m. till 5:00 p.m.

The virtual version of this course is delivered over two 5-hour days, for example, from 12-noon to 5:00 p.m.

Continuing Education Credits: 0.7

This course is not open to consultants, contractors, or any private entities.

This course is offered free of charge to all registrants who are confirmed to attend.



## ICS Instructor Training — Train-the-Trainer Practicum

ERTPVU: <https://www.ertpvu.org/ClassroomCourseDetail.aspx?id=56> (classroom/virtual)

Trainex: <https://trainex.org/offeringslist.cfm?courseid=1983>

Delivery: Classroom, Virtual

This 3- to 4-day course is Part 2 of a two-part instruction plan designed to prepare experienced EPA ICS practitioners to meet the FEMA recommendations and EPA requirements to become certified instructors for Intermediate and Advanced ICS (ICS-300/400) and EPA ICS Key Leadership Position (KLP) courses.

This course, called a “Practicum”, engages participants as an instructor trainee in the respective ICS-300/400 or KLP position course for which they have already become an experienced practitioner. Each instructor trainee will present at least one classroom lecture and facilitate at least one exercise during the course. The instructor trainee will assist in classroom and exercise set up and observe and document the instructional and classroom management techniques of experienced instructors as well as be observed by them. A feedback session will be held at the end of each day of the course. Participants will receive written as well as verbal feedback from their fellow instructors. Participants will submit written documentation of their observations.

This course is preceded by ICS KLP Instructor Training Part 1, which is a 1-day Adult Learning Methods classroom training course that provides participants 8 hours of classroom training covering adult learning theory, classroom management, exercise creation, exercise conduct, and other material that will aid the new instructor in presenting ICS classes.

Those seeking to obtain certification in multiple ICS courses may take the 1-day (Part 1) class only once and arrange to complete additional ICS practicum courses during the KLP course of their particular interest.

This course is intended for EPA personnel with prior training and experience in an ICS Key Leadership Position and requires adult learning methods training to meet the qualifications to become EPA-certified instructors.

After completing the course, participants will be able to:

- Demonstrate how to use multiple techniques of instruction
- Demonstrate effective classroom management skills
- Effectively present a course module
- Demonstrate the ability to ask and answer questions
- Effectively setup, monitor and debrief a classroom exercise
- Observe and document effective instructional and classroom management techniques of fellow instructors



## ICS Instructor Training — Train-the-Trainer Practicum (continued)

For more information, please contact the U.S. EPA National NIMS Coordinator:

Steve Ridenour  
U.S. EPA National NIMS Coordinator  
202-564-9831  
[Ridenour.steve@epa.gov](mailto:Ridenour.steve@epa.gov)

Continuing Education Credits: 2.4 to 3.2

This course is not open to consultants, contractors, or any private entities.

This course is offered free of charge to all registrants who are confirmed to attend.



# Chemistry for Environmental Professionals (CEP)

## CEP — Applied

ERTPVU: <https://www.ertpvu.org/ClassroomCourseDetail.aspx?id=24> (classroom/virtual)

Trainex: <https://trainex.org/offeringlist.cfm?courseid=66> (classroom)  
<https://www.trainex.org/offeringlist.cfm?courseid=1951> (virtual)

Delivery: Classroom, Virtual

This 1.5-day course provides participants with an introduction to applied environmental chemistry principles and practices which underlie the release, fate and transport, sampling, analysis, and cleanup of chemicals contaminating environmental media, with particular emphasis on soil and groundwater. This course is designed for environmental professionals who are not chemists, but who require a basic knowledge of chemistry and environmental chemistry in their work. Some prior education in chemistry, to the high school level or above, is recommended but not required.

Specific topics include a survey of selected chemical industries or processes that release hazardous chemicals into the environment; fate and transport of chemicals in environmental media; data quality objectives, including the control of false positive and false negative decision errors; and data usability, including defining detection limits and data qualifiers.

This course is preceded by the “Chemistry for Environmental Professionals - Fundamentals” training course. Although it is not required, students are encouraged to request both courses when registering.

After completing this course, participants will be able to:

- Describe the chemical, soil, water, and geological properties which govern the fate and transport of chemicals in environmental media
- List key chemicals and modes of release associated with selected chemical industries or processes
- List chemical parameter changes associated with aerobic and anaerobic degradation of hydrocarbons in subsurface media
- Identify the elements of the data quality objective (DQO) process
- Evaluate the consequences of false positive and false negative decision errors
- Describe procedures and practices commonly employed to ensure the quality and usability of analytical chemical data
- Define common terms and parameters used to evaluate and communicate the quality and usability of analytical chemical data



## **CEP – Applied (continued)**

ABIH (American Board of Industrial Hygienists) has previously awarded CM (Certification Maintenance) credit for this event. The current event contains 11 hours which can be claimed from ABIH for CM credit.

The classroom version of this course is delivered over 1.5 days.

The virtual version of this course is delivered over two 5-hour days, for example, from 8:00 a.m. to 1:00 p.m.

Continuing Education Credits: 1.1

This course is not open to consultants, contractors, or any private entities.

This course is offered free of charge to all registrants who are confirmed to attend.



## CEP — Fundamentals

ERTPVU: <https://www.ertpvu.org/ClassroomCourseDetail.aspx?id=2> (classroom/virtual)

Trainex: <https://trainex.org/offeringlist.cfm?courseid=16> (classroom)  
<https://trainex.org/offeringlist.cfm?courseid=1950> (virtual)

Delivery: Classroom, Virtual

This 2-day course provides participants with a review of fundamental chemical concepts which underlie an understanding of applied environmental chemistry concepts and practices. This course is designed for environmental professionals who are not chemists but who require a basic knowledge of chemistry and environmental chemistry in their work. Some prior education in chemistry, to the high school level or beyond, is recommended but not required.

Specific topics include unit conversions; chemical bonding; chemical formulas; physical properties; structural formulas; an introduction to organic chemistry, including chemical nomenclature; the theory of operation of analytical methods; and environmental chemical reactions.

This course is immediately followed by the 1.5-day “Chemistry for Environmental Professionals - Applied” training course. Although it is not required, students are encouraged to request both courses when registering.

After completing this course, participants will be able to:

- Describe common scientific measurements and perform unit conversions
- Describe ionic and covalent chemical bonding
- Use chemical formulas and the periodic table to calculate the mass of ingredients required to produce given amounts of chemical products
- Identify physical and chemical properties that affect chemical fate and transport in soil, water, and air
- Describe the structure of an organic chemical contaminant using common diagramming methods, such as the condensed structural formula and other methods
- Identify and name simple organic chemicals using the International Union of Pure and Applied Chemistry nomenclature system
- Describe the analytical methods and instruments used to identify chemicals in environmental media
- Describe the environmental chemical reactions which cause acid rain

ABIH (American Board of Industrial Hygienists) has previously awarded CM (Certification Maintenance) credit for this event. The current event contains 14 hours which can be claimed from ABIH for CM credit.

The classroom version of this course is delivered over two 8-hour days.

The virtual version of this course is delivered over three 5-hour days, e.g., from 8 a.m. to 1 p.m.



## **CEP – Fundamentals (continued)**

Continuing Education Credits: 1.4

This course is not open to consultants, contractors, or any private entities.

This course is offered free of charge to all registrants who are confirmed to attend.



# Geophysics

## Basic Environmental Geophysics

ERTPVU: <https://www.ertpvu.org/ClassroomCourseDetail.aspx?id=46>  
Trainex: <https://trainex.org/offeringlist.cfm?courseid=1760>

Delivery: Classroom

This 2-day course provides individuals who have little or no geophysical exploration experience with practical information on the strengths and limitations of the most used geophysical techniques on hazardous waste sites. It is intended to enable students to select the appropriate methods and to effectively supervise geophysical surveys during hazardous waste site investigations. This course offers the opportunity for hands on familiarization with the use of geophysical equipment and may be offered at any facility with a suitable outdoor open space area (rather than the 3-day Introduction to Environmental Geophysics course which requires use of a fixed facility with established buried targets at known locations and depths).

The course emphasizes three geophysical methods --magnetics, electromagnetic induction (EM), and ground- penetrating radar -- commonly employed for site characterization and waste location throughout the U.S. The course also introduces other methods --seismic refraction, gravity, resistivity, and borehole geophysics --that may be effective depending on regional or site- specific conditions, and for all methods provides examples of situations where they may be applicable. It is intended for personnel responsible for inspections, site characterization, site investigations, and removal and remedial actions at Superfund sites. The course focuses on investigation plan design; types of equipment suitable for hazardous waste site characterization; and equipment operation and characteristic data displays for the three main methods.

The course includes lectures and field exercises. The field exercises focus on the most common techniques used for site assessment. Exercises will be conducted using Cesium Magnetometers, Time-domain and Frequency-domain Electromagnetic methods, and Ground Penetrating Radar.

After completing the course, participants will be able to:

- Describe the various geophysical methods available for shallow environmental characterization that involves locating and resolving buried objects or evaluating site geology and hydrogeologic characteristics
- Understand the advantages and limitations of the magnetic, electromagnetic, seismic refraction, gravity, resistivity, borehole geophysics and ground-penetrating radar methods in environmental applications
- Design a field survey and operate the most frequently used types of geophysical instrumentation under field conditions
- Collect geophysical field data for use in resolving buried objects



## **Basic Environmental Geophysics (continued)**

This course is a road version of a longer and more involved course usually offered at a specially constructed field site. The road course includes outdoor exercises. Participants should dress for fieldwork. The exercise is conducted regardless of weather.

Continuing Education Units: 1.3

This course is not open to consultants, contractors, or any private entities.

This course is offered free of charge to all registrants who are confirmed to attend.



## Introduction to Environmental Geophysics

ERTPVU: <https://www.ertpvu.org/ClassroomCourseDetail.aspx?id=11>

Trainex: <https://trainex.org/offeringlist.cfm?courseid=28>

Delivery: Classroom

This 3-day course involves hands-on field surveys to search for geophysical anomalies generated by actual typical objects encountered on Superfund sites, and processing and interpretation of the data. As such it requires use of a field with buried objects at known locations, orientations and depths and is currently only presented at the EPA Region 4 Laboratory in Athens, Georgia.

This course provides individuals who have little or no geophysical exploration experience with practical information to effectively design and supervise geophysical surveys during hazardous waste site investigations. These techniques can be used on Superfund or Brownfields sites or sites where decisions must be made as to buried hazardous materials. The course focuses on plan design, types of equipment suitable for hazardous waste site characterization, equipment operation, procedures for safely collecting data, and the fundamentals of downloading, and processing and making simple interpretations of the data through comparison of the results generated by each type of instrument. Participants are also introduced to common data management software used for generating contour maps of the data. It is intended for personnel responsible for inspections, site characterization, site investigations, and removal and remedial actions at Superfund and other potential hazardous sites.

The course is designed to be consistent with the EPA protocol and guidance documents entitled, Compendium of ERT Soil Sampling and Surface Geophysics Procedures, A Compendium of Superfund Field Operations Methods, and Data Quality Objectives Process for Superfund.

Topics that are discussed include field work plan development; procedures for the use of geophysical methods for field screening; procedures for collection of field data using magnetic, seismic, gravity, electromagnetic and resistivity instruments; geophysical borehole logging; ground-penetrating radar; and quality assurance considerations.

Instructional methods include lectures, group discussions, demonstrations, computer modeling of data, and outdoor field exercises with an emphasis on the hands-on use of geophysical equipment.

After completing the course, participants will be able to:

- Describe the various geophysical methods available for shallow environmental characterization
- Describe the advantages and limitations of the magnetic, electromagnetic, seismic refraction, gravity, resistivity, borehole geophysics and ground-penetrating radar methods in environmental applications
- Operate geophysical instrumentation under field conditions
- Collect geophysical field data for use in resolving buried objects and determining geologic and hydrogeologic characteristics



## Introduction to Environmental Geophysics (continued)

- Make an interpretation of simple geophysical field data to resolve buried objects and determine geologic characteristics

This course is usually offered at a specially constructed field site. The course includes three half-day outdoor exercises. Participants should dress for fieldwork. The exercises are conducted regardless of weather.

Continuing Education Units: 2.0

This course is not open to consultants, contractors, or any private entities.

This course is offered free of charge to all registrants who are confirmed to attend.



# Groundwater

## Advanced Groundwater Investigations

ERTPVU: <https://www.ertpvu.org/ClassroomCourseDetail.aspx?id=5>

Trainex: <https://trainex.org/offeringlist.cfm?courseid=33>

Delivery: Classroom

This 1-day, advanced groundwater course is designed to provide participants an opportunity to work in teams to apply their geologic and hydrogeologic skills to review and interpret data, develop an accurate conceptual site model (CSM), and complete a challenging site investigation. The problem involves contaminants and hydrogeologic conditions common to many Superfund sites: and requires familiarity with – and interpretation of – geological, geophysical, aquifer stress test, and contaminant data to support the CSM. The course is intended for on-scene coordinators, remedial project managers, and other site professionals with strong groundwater investigation experience. Because this is a single day exercise/course, it is typically presented the same week and at the same location as (on the day immediately following completion of) the Introduction to Groundwater Investigations (IGWI) course.

Participants will be required to develop a conceptual site model (CSM) that will be revised throughout the exercise by reviewing and interpreting data that will be provided to them. Participants will construct geologic cross-sections, subsurface lithology maps of aquifers and water-level and potentiometric groundwater surface maps using boring logs and geophysical logs. Participants will also review groundwater analytical data from wells, plot and interpret aquifer stress test data and use all these results to work as a team to refine the CSM and establish source of contamination detected in a municipal water supply well.

At the beginning of the course, the instructors will supply brief descriptions of hydrogeologic setting of the area and a summary of the data sources that are provided in the course workbook. They will then divide the participants into small groups. At multiple times during the day, each team will be asked to present its CSM, and the proposed next steps to refine it. Each team will present a final CSM and its interpretation of the source of the contamination and its supporting rationale.

The students will accomplish the following objectives:

- Develop and use the CSM as a tool to guide the investigation
- Work as project team to share responsibility of reviewing and interpreting an extensive amount of site data
- Refresh basic geologic/hydrogeologic concepts
- Apply geologic/hydrogeologic skills
- Solve challenging problems incorporating geologic analysis, aquifer test analysis, well log analysis, cross sections, and subsurface mapping



## **Advanced Groundwater Investigations (continued)**

AGWI is typically offered sequentially in the same week and location as the Introduction to Groundwater Investigations (IGWI) course; however, it is not a direct follow-up course. AGWI requires application of additional skills and practical experience beyond the introductory concepts learned in the IGWI course. Participants must work as teams to review and interpret a variety of data sources with minimal instruction. For these reasons, the AGWI course will be best suited to participants who have additional career experience or training in conducting groundwater investigations.

Continuing Education Units: 0.7

This course is not open to consultants, contractors, or any private entities.

This course is offered free of charge to all registrants who are confirmed to attend.



## Introduction to Groundwater Investigations

ERTPVU: <https://www.ertpvu.org/ClassroomCourseDetail.aspx?id=6>

Trainex: <https://trainex.org/offeringlist.cfm?courseid=6>

Delivery: Classroom

This 3-day introductory course is designed to provide participants with information concerning hydrogeological processes and the necessary elements of a sound groundwater site investigation. It is intended for personnel who are involved in groundwater contamination investigations but have little prior hydrogeological experience. This course is not designed for geologists or hydrogeologists.

Topics that are discussed include hydrogeological definitions and concepts; conceptual site models (CSM) and their role in groundwater investigations; discussion of aquifer types and regional hydrogeology; geophysics; drilling, construction, and placement of monitoring wells; groundwater sampling considerations; groundwater modeling; and vapor intrusion.

Instructional methods include lectures, group discussions, case studies, and class problem-solving exercises.

After completing the course, participants will be able to:

- Identify the components of a groundwater system
- List the primary hydrogeological parameters to be considered in a site investigation
- Prepare and interpret geologic cross-sections
- Construct a groundwater flow net and calculate hydraulic gradient at a site
- Understand the sources of site hydrogeologic data and how that data is gathered and interpreted (for example aquifer stress tests)
- Discuss common geophysical survey methods
- Describe monitoring well drilling and construction techniques

This course is often presented in the same week as the Advanced Groundwater Investigations Course (AGWI), with AGWI presented on the day immediately following completion of the IGWI course.

Continuing Education Units: 2.0

This course is not open to consultants, contractors, or any private entities.

This course is offered free of charge to all registrants who are confirmed to attend.



## **Virtual Overview of Groundwater Investigations for Superfund**

ERTPVU: not available

Trainex: not available

Delivery: Virtual

This course is currently under development.



# Health and Safety

## EPA Office of Land and Emergency Management (Superfund) Asbestos Worker Safety

ERTPVU: <https://www.ertpvu.org/ClassroomCourseDetail.aspx?id=63>

Trainex: <https://trainex.org/offeringlist.cfm?courseid=1949>

Delivery: Classroom

This 2-day course is designed to meet the training requirements for the OSHA Class III Asbestos Worker found in 29 CFR 1926.1101(k)(9)(v). EPA staff coordinating or conducting Superfund asbestos sampling activities may be exposed to asbestos above a permissible exposure limit and should receive equivalent training. The course was developed to address the specific safe work practices used during Superfund sampling activities since they are not adequately covered by the curriculum found in 40 CFR 763.92(a)(2). The course will also provide On-Scene Coordinators (OSCs) with information needed to successfully manage a project where asbestos contamination is evaluated and removed. The course provides the minimum safety training needed to conduct soil sampling during a Removal Site Evaluation (RSE) or Remedial Investigation/Feasibility Study (RI/FS) and provides information about all aspects of asbestos work.

Note: This training does not meet the Asbestos NESHAP requirements to conduct asbestos inspections in Schools, or Public or Commercial Buildings. Additional training would be required if EPA personnel are conducting an AHERA/ASHARA inspection, acting as a Supervisor of an abatement crew, or performing actual asbestos abatement.

At the end of the course, participants should understand:

- The basics of asbestos and the forms of asbestos (include Libby amphiboles and other non-ACBM types), and past and current uses
- The health risks associated with asbestos exposure
- The likely exposure situations for RPM, OSC and other Superfund Support Personnel while conducting Superfund Site Work
- The various Federal asbestos laws and regulations
- EPA's risk-based cleanup/action levels and the Superfund Asbestos Framework
- The standard procedures and work practice controls to protect workers from asbestos exposure, including personal protective donning and doffing and respiratory protection
- The principals of asbestos air sampling, air sample analysis, bulk sampling and bulk sampling analysis including Superfund-specific sampling methods
- Asbestos disposal requirements



## **EPA Office of Land and Emergency Management (Superfund) Asbestos Worker Safety (continued)**

Instructional methods include a combination of lectures, case studies, and group discussions. The course will also include a practical, hands-on training component. This course meets the classroom and hands-on instruction requirements for the OSHA Class III Asbestos Worker as defined in 29 CFR 1926.1101(k)(9)(v). Participants will obtain an OSHA Class III Asbestos Worker-equivalent certification. This course is open to EPA staff, but priority will be given to OSCs.

Initial Course Length – 16 hours

Refresher Course Length – 4 hours, required annually

Continuing Education Units: 1.5

This course is not open to consultants, contractors, or any private entities.

This course is offered free of charge to all registrants who are confirmed to attend.



## OSHA 10-Hour Construction Industry Safety Course (29 CFR 1926)

ERTPVU: [ERTPVU description under development]  
Trainex: <https://trainex.org/offeringslist.cfm?courseid=2005>

Delivery: Classroom

THIS COURSE IS FOR U.S. EPA STAFF. THIS COURSE IS NOT OPEN TO ACADEMIA, INTERNATIONAL ATTENDEES, CONSULTANTS, CONTRACTORS, OR ANY PRIVATE ENTITIES.

This course is open to EPA Incident Command System (ICS) trained Safety Officers or EPA employees planning to serve as an EPA ICS Safety Officer, or General Employees where applicable due to job duties as outlined in EPA's Safety, Health & Environmental Management Program Guidelines (Guideline 51, Oct 2019).

This OSHA10-hour course is primarily intended for entry level workers to provide training for employees on the recognition, avoidance, abatement, and prevention of safety and health hazards in a construction environment. The course serves as an orientation to occupational safety and health for workers covered by OSHA 29 CFR 1926 for the construction industry that includes, but is not limited to, employees engaged in construction, alteration, and/or repair (including painting and decorating) activities. Beyond this orientation/basic training course, workers must receive additional training, when required by OSHA standards, on the specific hazards of the job.

At the end of the course, participants should understand:

- Basic orientation safety and health information and education with emphasis on occupational safety and health for workers covered by OSHA 29 CFR 1926 - construction industry
- Awareness of common job-related safety and health hazards
- Training for general employers on the recognition, avoidance, abatement, and prevention of safety and health hazards in workplaces in construction
- Workers' rights, employer responsibilities, and how to file a complaint
- The purpose and use of the 10-Hour Construction Outreach course completion card

This course does not:

- Fulfill an employer's requirement to provide training under specific OSHA standards
- Meet the training requirements for any OSHA standards\*

\*Although some states have enacted laws mandating the training, and municipalities or others may require this training as a condition of employment, it is not an OSHA requirement. None of the courses within OSHA's Outreach Training Program are considered certifications. This OSHA Outreach Training Program course is identified by OSHA as voluntary.



## **OSHA 10-Hour Construction Industry Safety Course (continued)**

**Target Audience:** This course is required for all EPA's ICS Safety Officers and general employees where applicable due to job duties. This course is generally offered to EPA's ICS-trained Safety Officers or EPA employees planning to serve as an EPA ICS Safety Officer.

**Prerequisites:** Applicable to the EPA ICS Safety Officer are ICS-100, ICS-200, IS-700b, IS-800d, ICS-300, and ICS-400\*\*

**\*\*This course is a prerequisite for qualification as an EPA ICS Safety Officer in accordance with "EPA Order 2073, EPA Incident Command System Training, Qualification, and Certification Standards".**

This course is offered free of charge to all registrants who are confirmed to attend

Course Length: 1.5 days

Continuing Education Units: 1.0



## OSHA 10-Hour General Industry Safety Course (29 CFR 1910)

ERTPVU: [ERTPVU description under development]  
Trainex: <https://trainex.org/offeringlist.cfm?courseid=2000>

Delivery: Classroom

THIS COURSE IS FOR U.S. EPA STAFF. THIS COURSE IS NOT OPEN TO ACADEMIA, INTERNATIONAL ATTENDEES, CONSULTANTS, CONTRACTORS, OR ANY PRIVATE ENTITIES.

This course is open to EPA Incident Command System (ICS) trained Safety Officers or EPA employees planning to serve as an EPA ICS Safety Officer, or General Employees where applicable due to job duties as outlined in EPA's Safety, Health & Environmental Management Program Guidelines (Guideline 51, Oct 2019).

This OSHA10-hour course is primarily intended for entry level workers to provide training for employees on the recognition, avoidance, abatement, and prevention of safety and health hazards in workplaces in general industry. The course serves as an orientation to occupational safety and health for workers covered by 29 CFR 1910 for the General Industry Safety that includes, but is not limited to, employees engaged in most everyday work settings. Beyond this orientation/basic training course, workers must receive additional training, when required by OSHA standards, on the specific hazards of the job.

At the end of the course, participants should understand:

- Basic orientation safety and health information and education with emphasis on occupational safety and health for workers covered by 29 CFR 1910 - General Industry Safety
- Awareness of common job-related safety and health hazards
- Training for general employers on the recognition, avoidance, abatement, and prevention of safety and health hazards in workplaces in general industry
- Workers' rights, employer responsibilities, and how to file a complaint
- The purpose and use of the 10-Hour General Industry Safety Outreach course completion card

This course does not:

- Fulfill an employer's requirement to provide training under specific OSHA standards.
- Meet the training requirements for any OSHA standards.\*

\*Although some states have enacted laws mandating the training, and municipalities or others may require this training as a condition of employment, it is not an OSHA requirement. None of the courses within OSHA's Outreach Training Program are considered certifications. This OSHA Outreach Training Program course is identified by OSHA as voluntary.



## **OSHA 10-Hour General Industry Safety Course (continued)**

**Target Audience:** This course is required for all EPA's ICS Safety Officers and general employees where applicable due to job duties. This course is generally offered to EPA's ICS-trained Safety Officers or EPA employees planning to serve as an EPA ICS Safety Officer.

**Prerequisites:** Applicable to the EPA ICS Safety Officer are ICS-100, ICS-200, IS-700b, IS-800d, ICS-300, and ICS-400\*\*

\*\*This course is a prerequisite for qualification as an EPA ICS Safety Officer in accordance with "EPA Order 2073, EPA Incident Command System Training, Qualification, and Certification Standards".

This course is offered free of charge to all registrants who are confirmed to attend.

Course Length: 1.5 days

Continuing Education Units: 1.0



## Hazardous Materials Technician

ERTPVU: <https://www.ertpvu.org/ClassroomCourseDetail.aspx?id=3>

Trainex: <https://trainex.org/offeringslist.cfm?courseid=21>

Delivery: Classroom

This 3-day, 24-hour course emphasizes how to properly respond to releases or potential releases of hazardous materials for the purpose of mitigating the release in accordance with Occupational Safety and Health Administration's (OSHA) 29 CFR 1910.120(q)(6)(iii). This course is designed for the first responders (firefighters, law enforcement, hazmat team members and environmental personnel responding to emergencies).

Individuals should have awareness and operations level training prior to attending this course.

The course focuses on:

- Recognizing and evaluating a hazardous materials incident
- Organizing the response team and protecting response personnel
- Identifying and using response resources and equipment
- Implementing confinement, containment, and control measures
- Refining decision-making skills to protect the public and environment

After completing the course, participants will be able to:

- Implement an emergency response plan
- Classify, identify, and verify known and unknown materials using field survey instruments and equipment
- Function within an assigned role in the Incident Command System
- Select the appropriate specialized chemical personal protective equipment
- Understand hazard and risk assessment techniques
- Perform advanced control, containment and/or confinement operations
- Understand and implement decontamination procedures
- Understand basic chemical and toxicological terminology and behavior

Topics that are discussed include emergency response plans, characteristics of hazardous materials, toxicology, information resources, container identifications, incident command for hazardous materials, control contain and confinement of materials, chemical protective clothing, monitoring instruments, and decontamination.

Instructional methods used are lectures, class problem-solving sessions, and exercises. Emphasis is on the hands-on use of equipment to practically apply lecture information. Class members will participate in a full-scale exercise designed to apply and test the lessons learned during the course. Participants will wear self-contained breathing apparatus (SCBA) fully encapsulating suits. Individuals who are not participating in a respiratory protection and medical



## **Hazardous Materials Technician (continued)**

surveillance program should contact Registration and their employer prior to attending this course.

This course has a large amount of equipment that will be shipped.

A medical evaluation in accordance with the Respiratory Protection Standard, 29 CFR 1910.134 is necessary to attend this course. Each student must include with their registration a letter from their supervisor or a copy of a medical certificate that clearly states that a medical evaluation has been completed and that the student is medically able to wear respiratory protection equipment. This must be received prior to the course start date. Registration will not be complete, nor will confirmation be sent, until such proof is received by the ERTTP Registrar. If registration is done on-line, scan a copy of the document and email it to the ERTTP Registrar at [ertp-registrar2@tetrattech.com](mailto:ertp-registrar2@tetrattech.com).

This course meets and exceeds the minimum OSHA requirements of 24 hours of training for a hazardous materials technician.

Continuing Education Units: 2.2

ABIH (American Board of Industrial Hygienists) has previously awarded CM (Certification Maintenance) credit for this event. The current event contains 22 hours which can be claimed for CM credit.

This course is not open to consultants, contractors, or any private entities.

This course is offered free of charge to all registrants who are confirmed to attend.



## Health and Safety for EPA Site Supervisors

ERTPVU: <https://www.ertpvu.org/ClassroomCourseDetail.aspx?id=41> (classroom/virtual)

Trainex: <https://trainex.org/offeringlist.cfm?courseid=1551> (classroom)  
<https://trainex.org/offeringlist.cfm?courseid=1986> (virtual)

Delivery: Classroom, Virtual

This 8-hour course is for experienced personnel responsible for developing, implementing, or managing safety programs for hazardous waste clean-up operations, treatment, storage and disposal facilities, or responding to chemical emergencies.

The course will help answer the following questions as a site supervisor:

- What are the health and safety responsibilities
- What do the National Oil and Hazardous Substances Pollution Contingency Plan (NCP) and the Occupational Safety and Health Administration (OSHA) say are the responsibilities and potential liabilities as the EPA representative
- What should be looked for when reviewing a site health and safety plan
- How is an accident investigation conducted

Topics discussed include responsibilities and liabilities, health and safety plans, accident investigations, and lessons learned.

The instructional methodology for this course includes lectures, case studies, and group discussions. The target audience for this course is RPMs, OSCs and other site safety managers.

This course meets the 29 CFR1910.120(e)(4) requirements for eight hours of initial training for on-site management and supervisors directly responsible for, or who supervise employees engaged in, hazardous waste operations.

Continuing Education Units: 0.8

This course is not open to consultants, contractors, or any private entities.

This course is offered free of charge to all registrants who are confirmed to attend.



# Incident Command System

## Assistant Safety Officer

ERTPVU: <https://www.ertpvu.org/ClassroomCourseDetail.aspx?id=52> (classroom/virtual)  
Trainex: <https://trainex.org/offeringlist.cfm?courseid=1882> (virtual)

Delivery: Classroom, Virtual

This 2-day course provides participants with course work for the position of Assistant Safety Officer (ASO). It covers the roles and responsibilities of an ASO and the relationship of the ASO to the Safety Officer (SO) within the Incident Command System (ICS). The student will review the administrative functions of the SO (e.g., participating in Incident Management Team meetings and incident briefings, and conducting investigations) but the real emphasis will be on how to be the “eyes and ears” of the SO in the field. This training is designed to provide the ASO with a better understanding of field operations to help ensure the smooth flow of information between the field and Incident Command. This, in turn, helps improve the efficiency and safety of field operations, and decreases the likelihood of injuries and “stop work” orders.

Instructional methods include lectures, videos, class discussions, and group exercises. A certificate of course completion will be awarded to those students who have 100% attendance.

This course is intended for U.S. EPA personnel who have completed the 24-hour EPA Field Health and Safety Training Course and/or the 40-Hour HAZWOPER Training Course. This course is **REQUIRED** for all new ASOs and **RECOMMENDED** for ASOs who have already served as an ASO. An instructor will review all registrations.

After completing the course, participants will be able to:

- Identify ASO roles and responsibilities
- Describe the interactions of the ASO with the SO and other Incident Command positions
- Locate and use the tools found in the EPA SO Toolbox
- Perform the administrative functions of the SO
- Explain operational risk management strategies
- Identify common safety concerns on project sites, and specific hazards associated with different kinds of emergencies
- Use the ASO Field Audit Guidance document to evaluate and control site hazards
- Describe specific areas of special technical expertise that ASOs can contribute to site operations
- Identify references and resources that can be consulted for additional information

The classroom version of this course is delivered over two days (16 hours).

The virtual version of this course is delivered over three 5.5-hour days. (i.e. 8 a.m. to 1:30 p.m.)

Continuing Education Units: 1.6



## **Assistant Safety Officer (continued)**

This course is not open to consultants, contractors, or any private entities.

This course is offered free of charge to all registrants who are confirmed to attend.



## Division/Group Supervisor

ERTPVU: <https://www.ertpvu.org/ClassroomCourseDetail.aspx?id=9> (classroom/virtual)

Trainex: <https://trainex.org/offeringslist.cfm?courseid=464> (classroom)

<https://trainex.org/offeringslist.cfm?courseid=1962> (virtual)

Delivery: Classroom, Virtual

This 1.5-day course is designed to meet all the requirements and training needs of the Division/Group Supervisor for a Type 2 Incident Management Team.

This course is intended for U.S. EPA and U.S. Coast Guard personnel who have shown an interest, demonstrated the necessary skills, and met all the pre-requisites which include completed Incident Command System I-100, 200, 300, 400 level courses and IS-700b and IS-800d, skills, knowledge, and experience.

After completing the course, participants will be able to:

- Understand the duties and responsibilities of the Division/ Group Supervisor employed on an incident
- Gather information on resources and arrange, stage, and formulate a method to employ the use of personnel and equipment as directed by the Branch Director or the Operations Section Chief within the designated plan that is needed to handle the situation. This includes coordination between units and agencies and subordinate personnel to ensure that the information and resources needed to perform their jobs are directed to the correct location at the right time, in a safe and cost-effective manner
- Coordinate with cooperating agency resources to bring about successful performance during the response

The classroom version of this course is delivered over one and a half days (10 hours).

The virtual version of this course is delivered over two 5.5-hour days (i.e., 8:00 a.m. to 1:30 p.m.).

Continuing Education Units: 1.0

This course is not open to consultants, contractors, or any private entities.

This course is offered free of charge to all registrants who are confirmed to attend.



## ICS-300: Intermediate ICS

ERTPVU: <https://www.ertpvu.org/ClassroomCourseDetail.aspx?id=7> (classroom/virtual)

Trainex: <https://trainex.org/offeringlist.cfm?courseid=469> (classroom)

<https://trainex.org/offeringlist.cfm?courseid=1868> (virtual)

Delivery: Classroom, Virtual

This 2.5-day course meets all the requirements and training needs of the National Incident Management System (NIMS) for Intermediate Incident Command System training.

This course is intended for U.S. EPA and U.S. Coast Guard personnel only or by invitation that have successfully completed Incident Command and related training, I-100 and 200, IS-700b and IS-800d level training, and who will hold supervisory positions within an ICS organization.

After completing the course, participants will be able to:

- Match responsibility statements to each ICS organizational element
- List ICS positions which may include deputies and describe roles and responsibilities
- Describe differences between deputies and assistants
- Describe ICS reporting and working relationships for technical specialists and agency representatives
- Describe reporting relationships and information flow within the organization
- Describe the steps in transferring and assuming incident command
- List the major elements included in the incident briefing
- Develop sample organizations around a major event. Organizational development will include the use of all appropriate sections and organizational modules
- Describe how incidents can best be managed by appropriate and early designation of primary staff members and by proper delegation of authority
- Describe how Unified Command functions on a multi-jurisdiction or multi-agency incident
- List the minimum staffing requirements within each organizational element for at least two incidents of different sizes
- Describe the role and use of forms in effective incident management
- Identify and describe four basic principles of resource management
- Identify the basic steps involved in managing incident resources
- Know the contents of, and how the Operational Planning Worksheet (ICS Form 215) is used
- Identify the organizational elements at the incident that can order resources
- Describe the differences between single and multipoint resource ordering and the reasons for each



## ICS-300 (continued)

- Describe why and how resources are assigned to staging areas, camps, and direct tactical assignments
- Describe the purpose and importance of planning for resource demobilization
- Identify five key considerations associated with resource management and reasons for each
- List the major steps involved in the planning process
- Give the ICS titles of personnel who have responsibilities in developing the Incident Action Plan and list their duties
- Explain the use of operational periods in the planning process, and how operational periods are derived
- Explain the function of the Operational Planning Worksheet and other forms which may be used in preparing the Incident Action Plan
- Explain the criteria for determining when the Incident Action Plan should be prepared in writing
- Identify the kinds of supporting materials included in an Incident Action Plan
- List the major sections in a Demobilization Plan
- Identify the steps built into ICS design to compensate for previous incident management problem
- Define Unified Command
- Define the advantages of Unified Command and define the kinds of applications which may call for a Unified Command organization
- Identify the primary features of a Unified Command organization
- Describe areas of cost sharing which might apply under a Unified Command structure

The classroom version of this course is delivered over two and a half days (18 to 20 hours).

The virtual version of this course is delivered over four 5.5-hour days (i.e., 8:00 a.m. to 1:30 p.m.).

Continuing Education Units: 1.8 to 2.2

This course is not open to consultants, contractors, or any private entities.

This course is offered free of charge to all registrants who are confirmed to attend.



## ICS-400: Advanced ICS

ERTPVU: <https://www.ertpvu.org/ClassroomCourseDetail.aspx?id=8> (classroom/virtual)

Trainex: <https://trainex.org/offeringlist.cfm?courseid=554> (classroom)

<https://trainex.org/offeringlist.cfm?courseid=1869> (virtual)

Delivery: Classroom, Virtual

This 2-day course meets all the requirements and training needs of the National Incident Management System (NIMS) for Advanced Incident Command System training.

This course is intended for U.S. EPA and U.S. Coast Guard personnel that have successfully completed Incident Command and related training, I-100, I-200, ICS-300, IS-700b and IS-800d level training, and who will hold supervisory positions within an ICS organization.

After completing the course, participants will be able to:

- Summarize principal responsibilities for each Command and General Staff member
- Describe the roles of deputies and assistants in incident management
- Describe the purposes and responsibilities of agency representatives, reporting relationships, and how they can be effectively used within the incident organization
- Describe areas of cost sharing which might apply under a Unified Command structure
- List the principal factors often found in, or related to, major and / or complex incidents
- List the four expansion options for incident organization and describe the conditions under which they would be applied
- Define Area Command
- Identify differences between Area Command, Unified Command, Multi-agency Coordination Systems, and Emergency Operations Centers
- List the principal advantages of using Area Command
- Describe how, when, and where Area Command would be established
- Describe the Area Command organization
- Identify six primary functional responsibilities of Area Command

The classroom version of this course is delivered over two days (14 to 16 hours).

The virtual version of this course is delivered over three 5.5-hours days (i.e., 8:00 a.m. to 1:30 p.m.).

Continuing Education Units: 1.3

This course is not open to consultants, contractors, or any private entities.

This course is offered free of charge to all registrants who are confirmed to attend.



## Incident Management Team Functional Exercise

ERTPVU: <https://www.ertpvu.org/ClassroomCourseDetail.aspx?id=53>

Trainex: <https://trainex.org/offeringslist.cfm?courseid=1747>

Delivery: Classroom, Virtual

The 1- to 3-day Functional Exercise provides Incident Command System (ICS) Incident Management Team (IMT) members an opportunity to practice and improve their collective ability to function as a team to manage a simulated incident response, as well as refresh and extend their individual ICS position-specific functional skills.

This course is intended for U.S. EPA and U.S. Coast Guard personnel that have successfully completed Key Leadership Position training and who will be called upon to assume those positions within an ICS organization. Command Post support staff, such as GIS specialists, Community Involvement Coordinators and Information Technology specialists may also be involved to improve the realism and efficiency of exercise play.

Each 1-day exercise session simulates one operational period, usually 24 hours, with a particular focus on the production of a Situation Report (SitRep) and conduct of planning cycle (Planning 'P') activities that are needed to produce an Incident Action Plan (IAP) for the next Operational Period.

Additional activities and accomplishments that are typically exercised include:

- Develop, approve, and issue press releases and other public information work products
- Conduct simulated press briefings
- Process, interpret and internally disseminate (simulated) environmental monitoring data
- Gather (simulated) situational data and process it to produce situational intelligence work products, such as maps, for internal and (simulated) external customers
- Perform check-in of Command and General Staff and track all resources
- Develop, process, and approve resource requests
- Order and assign resources (simulated)
- Coordinate with the Regional Emergency Operational Center (usually, this is simulated, but sometimes, with planning, the REOC is staffed and participates in exercise play)
- Process cost information to develop a daily Burn Rate
- Receive and process Funding Documentation
- Manage resources to accomplish tactical operations (simulated)

The exercises are designed to be conducted in a no-fault atmosphere with senior IMT members present for mentoring purposes. The actual exercise is scheduled for 8 hours or until the Exercise Director determines the exercise objectives have been met.



## **Incident Management Team Functional Exercise (continued)**

Course evaluation will consist of a Hot Wash and participant-completed feedback forms. Additional evaluation tools, such as Exercise Evaluation Guides (EEGs) may be developed and utilized, if requested in advance.

IMT Exercises are ordered and scheduled by Regions through the ERTTP Contracting Officer Representative (COR).

The virtual version of this course is delivered via MS TEAMS, one day per Incident Management Team.

Variations in exercise design scope and complexity may be negotiated with the COR.

Continuing Education Units: 0.8 to 2.4

This course is not open to consultants, contractors, or any private entities.

This course is offered free of charge to all registrants who are confirmed to attend.



# ICS Key Leadership Position

## Environmental Unit Leader

ERTPVU: <https://www.ertpvu.org/ClassroomCourseDetail.aspx?id=28> (classroom/virtual)

Trainex: <https://trainex.org/offeringlist.cfm?courseid=479> (classroom)  
<https://trainex.org/offeringlist.cfm?courseid=1867> (virtual)

Delivery: Classroom, Virtual

This 3-day course provides participants course work and hands-on training for the position of Environmental Unit Leader (ENVL). It covers the role and responsibilities of an ENVL and the relationship of the ENVL to other incident personnel within the Incident Command System (ICS). The student will become familiar with the various incident-related documents, software programs and other resources that may be used by an ENVL.

Topics include the Environmental Unit's role in the Incident Command System; staffing and organizing the Environmental Unit; sample plan development; monitoring and sampling techniques; laboratory resources; toxicology; modeling applications and limitations; treatment and disposal; and decontamination. Instructional methods include a combination of lectures, videos, case studies, class discussions, and group exercises.

This course is intended for U.S. EPA and U.S. Coast Guard personnel who have completed the Incident Command System courses I-100, 200, 300, and 400, IS-700b and IS-800d, and who have been identified to be a part of an Incident Management Team.

After completing this course, participants will be able to:

- Understand the management and leadership function of the ENV Leader
- Define the interactions of the ENVL with other functional positions in the incident management team
- Understand how and when to incorporate multiple agency expertise into the Environmental Unit of the Planning Section
- Define various response technologies that may be needed to support the operations of the Environmental Unit during a major incident
- Understand toxicology, and health and safety issues as they apply to a response
- Understand the capability and/or limitations of numerical models as tools to support the operations of the Environmental Unit during a response
- List the contents of the Environmental Unit Leader Toolbox

The classroom version of this course is delivered over three 8-hour days. The virtual version of this course is delivered over four 5-hour days (i.e., 8:00 a.m. to 1:00 p.m.).

Continuing Education Units: 2.2

This course is not open to consultants, contractors, or any private entities.

This course is offered free of charge to all registrants who are confirmed to attend.



## Finance and Administration Section Chief

ERTPVU: <https://www.ertpvu.org/ClassroomCourseDetail.aspx?id=19>

Trainex: <https://trainex.org/offeringlist.cfm?courseid=477>

Delivery: Classroom

This 3-day course provides participants with course work and hands-on training for the position of Finance/Administration Section Chief (FSC) on a Type 2 Incident Management Team. It covers the role and responsibilities of a FSC and the relationship of the FSC to other incident personnel within the Incident Command System (ICS). The course reviews the Job Aids, which include the role and responsibilities, of various Unit Leaders such as the Time Unit Leader, Cost Unit Leader, and Procurement Unit Leader, and Comp/Claims Unit Leader. The student will become familiar with the various incident-related documents and software programs that may be used by an FSC. Instructional methods include lectures, class discussions, graded evaluations, and group exercises. A certificate of course completion will be awarded to those students who have 100% attendance and who obtain a total course score of 70% or higher.

This course is intended for U.S. EPA and U.S. Coast Guard personnel who have completed Incident Command System courses I-100, 200, 300, and 400, IS-700b and IS-800d, and who have been identified to be a part of an Incident Management Team.

After completing this course, participants will be able to:

- Define the role and responsibilities of the Finance/Administration Section Chief (FSC) in the overall management of the Finance/Administration Section
- Discuss options for funding the incident and discuss procurement processes
- Describe the relationship of the FSC to other incident personnel, incident agency personnel, and other contacts
- Describe the role of the FSC in the development, review, and update of incident related documents, e.g., Site Safety Plan, Demobilization Plan, Incident Action Plan, Interagency Agreements, Federal Emergency Management Agency (FEMA) Agreements, and Emergency Fund Agreements
- Describe the role of the FSC in the development of the incident finance package (official files)

Continuing Education Units: 2.2

This course is not open to consultants, contractors, or any private entities.

This course is offered free of charge to all registrants who are confirmed to attend.



## Incident Commander

ERTPVU: <https://www.ertpvu.org/ClassroomCourseDetail.aspx?id=29>

Trainex: <https://trainex.org/offeringlist.cfm?courseid=474>

Delivery: Classroom

This 3-day course is designed to train personnel in the roles and responsibilities of an Incident Commander in a Type 2 Incident Management Team. The course covers the Leadership, Mobilization, Incident Management, Administration, and Demobilization of a Type 2 IMT. This is accomplished through lectures and short exercises. A closed book test is administered at the conclusion of the class. A score of 70% is mandatory for successful completion of the course.

This course is intended for U.S. EPA and U.S. Coast Guard personnel who have completed Incident Command System I-100, 200, 300, 400, IS-700b and IS-800d level courses.

After completing the course, participants will be able to:

- Define and describe the role of the Incident Commander in managing complex extended all risk incidents
- Describe the role of the Incident Commander in leading an Incident Management Team
- Identify the Incident Management Team's role in using appropriate interpersonal communication skills and management principles necessary for effective and efficient incident management

Continuing Education Units: 2.2

This course is not open to consultants, contractors, or any private entities.

This course is offered free of charge to all registrants who are confirmed to attend.



## Liaison Officer

ERTPVU: <https://www.ertpvu.org/ClassroomCourseDetail.aspx?id=30>

Trainex: <https://trainex.org/offeringlist.cfm?courseid=473>

Delivery: Classroom

This 3-day course is designed to provide training to Agency personnel to develop skills necessary to perform as the Liaison Officer assigned to a Type 2 Incident Management Team (IMT). This course is divided into 8 units. It consists of lectures, class discussion, and individual and group exercises.

This course is intended for U.S. EPA and U.S. Coast Guard personnel who have completed Incident Command System I-100, 200, 300, 400, IS-700b and IS-800d level courses and who have been identified to be part of an Incident Management Team.

After completing the course, participants will be able to:

- Differentiate between assisting and cooperating agencies
- Describe the duties, responsibilities, and authority Agency Representatives must have to perform their duties
- List the items for consideration in establishing a work location at an incident
- List the conditions that indicate additional staffing is needed
- Describe the Liaison Officer's responsibilities in the incident demobilization process

Continuing Education Units: 2.2

Note: A calculator is recommended. A device or laptop computer with Wi-Fi connection capability is highly recommended

This course is not open to consultants, contractors, or any private entities.

This course is offered free of charge to all registrants who are confirmed to attend.



## Logistics Section Chief

ERTPVU: <https://www.ertpvu.org/ClassroomCourseDetail.aspx?id=31>

Trainex: <https://trainex.org/offeringslist.cfm?courseid=475>

Delivery: Classroom

This 4-day course covers basic training requirements for the Food Unit Leader, Medical Unit Leader, Facilities Unit Leader, Ground Support Unit Leader, Supply Unit Leader, and Communications Unit Leader positions which exist within the Logistics Section. This course is also designed to meet the 16-hour training requirement for the Logistics Section Chief position on a Type 2 Incident Management Team.

This course is intended for U.S. EPA and U.S. Coast Guard personnel who have successfully completed Incident Command System I-100, 200, 300, 400 level courses and IS-700b and IS-800d, and who have been identified to fulfill the position of Logistics Section Chief on an Incident Management Team. At a minimum, students should have completed Advanced ICS, I-400 training as a prerequisite.

After completing the course, participants will have the necessary information to:

- Arrive properly equipped at an incident, gather information to access the assignment, and begin initial planning activities of the Logistics Section Chief
- Determine those facilities, services, and materials are provided for an incident
- Plan, staff, and manage the logistics section to meet the needs of the incident in a safe and efficient manner
- Coordinate with other sections to assist in accomplishing the overall objective of the incident
- Implement the demobilization plan

Continuing Education Units: 2.9

This course is not open to consultants, contractors, or any private entities.

This course is offered free of charge to all registrants who are confirmed to attend.



## Operations Section Chief

ERTPVU: <https://www.ertpvu.org/ClassroomCourseDetail.aspx?id=18>

Trainex: <https://trainex.org/offeringlist.cfm?courseid=471>

Delivery: Classroom

This 3-day course is designed to meet all the requirements and training needs of the Operations Section Chief for a Type 2 Incident Management Team. The Division/ Group Supervisor - EPA 339 training is a pre-requisite to the Operations Section Chief training.

This course is intended for U.S. EPA and U.S. Coast Guard personnel who have successfully completed Incident Command System I-100, 200, 300, 400 level courses, IS-700b and IS-800d, and who have been identified to fulfill the Operations Section Chief position on an Incident Management Team.

After completing the course, participants will be able to:

- Describe the concepts and use of divisions, groups, and branches to effectively manage all-risk incident operations
- Demonstrate effective information gathering practices to assess incident assignments and determine immediate actions
- Describe effective information sharing practices
- Describe why and when tactics may need to be adjusted
- Demonstrate the Operations Section Chief's role in an Operational Period Briefing
- Describe the Operations Section Chief's role in managing and adjusting the operational organization
- Describe the Operations Section Chief's role in risk assessment and safety management
- Describe the Operations Section Chief's role in developing the operational portion of an Incident Action Plan
- Describe the Operations Section Chief's role in developing and implementing contingency plans and demobilization plans

Continuing Education Units: 2.2

This course is not open to consultants, contractors, or any private entities.

This course is offered free of charge to all registrants who are confirmed to attend.



## Planning Section Chief

ERTPVU: <https://www.ertpvu.org/ClassroomCourseDetail.aspx?id=26>

Trainex: <https://trainex.org/offeringlist.cfm?courseid=465>

Delivery: Classroom

This 4-day course will provide participants with the knowledge and skills to perform the duties and responsibilities of the Planning Section Chief on a Type 2 Incident Management Team. Specific topics include Resource Unit Leader (RESL), Situation Unit Leader (SITL), Documentation Unit Leader (DOCL) and Environmental Unit Leader (ENVL) functional position review; information gathering and evaluation; strategies, meetings and briefings; Incident Action Plan preparation; interactions and information exchange; forms, documents and supplies; and demobilization and closeout.

This course is intended for U.S. EPA and U.S. Coast Guard personnel who have successfully completed Incident Command System I-100, 200, 300, 400, IS-700b and IS-800d level courses and who have been identified to fulfill the Planning Section Chief position on an Incident Management Team.

After completing the course, participants will be able to:

- Describe incident information needs, data gathering methods and data evaluation processes
- Describe the PSC role in the transition briefing, the planning review meeting, the operational briefing, and other meetings and briefings
- Describe the components of the Incident Action Plan (IAP) and who is responsible for preparing them
- Describe the PSC role in the preparation of the IAP and other documents
- Describe specific elements of the Situation Report (SitRep) and identify the ICS functional units responsible for generating each element
- Conduct an operational briefing
- Describe demobilization planning and IMT closeout procedures

Continuing Education Units: 3.0

This course is not open to consultants, contractors, or any private entities.

This course is offered free of charge to all registrants who are confirmed to attend.



## Public Information Officer

ERTPVU: <https://www.ertpvu.org/ClassroomCourseDetail.aspx?id=35>

Trainex: <https://trainex.org/offeringlist.cfm?courseid=508>

Delivery: Classroom

This 4-day course provides participants with course work and hands-on training for the position of Public Information Officer (PIO) on a Type 2 Incident Management Team. It covers the role and responsibilities of a PIO, duties required of the PIO in all types of incidents, how to establish and organize an Information Office appropriate for the incident and discusses key functions of the Information Office. Instructional methods include lectures, class discussions, graded evaluations, and group exercises. A certificate of course completion will be awarded to those students who have 100% attendance and who obtain a total course score of 70% or higher.

This course is intended for U.S. EPA and U.S. Coast Guard personnel who have completed Incident Command System courses I-100, 200, 300, and 400, and IS-700b and IS-800d, and who have been identified to be a part of an Incident Management Team.

After completing this course, participants will be able to:

- Define the role and responsibilities of the Public Information Officer (PIO) within the Incident Command System (ICS) structure
- Identify the major functions of the PIO and their specific responsibilities
- Describe the duties and assignments of PIO assistants
- Be able to correctly apply the Crisis Communication plan during a Nationally Significant Incident (NSI)
- Describe the U.S. EPA structure for managing data during an NSI
- Explain how the PIO interacts within the ICS structure, with EPA Regional Offices and EPA Headquarters
- Describe the approval process for communication products
- Understand the roles and responsibility of the PIO to community relations

Continuing Education Units: 3.2

This course is not open to consultants, contractors, or any private entities.

This course is offered free of charge to all registrants who are confirmed to attend.



## Resource Unit Leader

ERTPVU: <https://www.ertpvu.org/ClassroomCourseDetail.aspx?id=32> (classroom/virtual)

Trainex: <https://trainex.org/offeringlist.cfm?courseid=478> (classroom)  
<https://trainex.org/offeringlist.cfm?courseid=1956> (virtual)

Delivery: Classroom, Virtual

This 4-day course provides participants with coursework and hands-on training for the position of Resource Unit Leader. It covers the roles, responsibilities, and relationships of the Resource Unit Leader and Demobilization Unit Leader to other personnel within the Incident Command System (ICS). The student will become familiar with the various incident-related documents and software programs that may be used.

Resource Unit Leader topics include:

- Organizing and managing the unit
- Check-in
- Tracking resource status
- Operational planning
- Resource Unit products
- Developing the Demobilization Plan
- Writing the Demobilization Plan
- Implementing the Demobilization Plan

An extensive exercise in which the student organizes and operates a resource unit serves to test the student's skills.

Demobilization Unit Leader topics include:

- Organizing and managing the unit
- Developing the Demobilization Plan
- Writing the Demobilization Plan
- Implementing the Demobilization Plan

This course is intended for U.S. EPA and U.S. Coast Guard personnel who have shown interest, demonstrated the necessary skills and knowledge, and have accomplished minimum training, including Incident Command System courses I-100, 200, 300 and 400, and IS-700b and IS-800d, appropriate for the position of Resource Unit Leader and Demobilization Unit Leader.



## Resource Unit Leader (continued)

After completing the course, participants will be able to:

- Understand the mission, organization, and operation of the Resource Unit from lecture and small group exercises
- Identify, track, and account for incident resources from experimentation with T-cards and a variety of other systems
- Describe the Incident Action Plan (IAP) and other section work products
- Accomplish the duties and responsibilities of a Demobilization Unit Leader (DMOB) on a large incident
- Develop, write, and implement a demobilization plan

The classroom version of this course is delivered over four days (32 hours).

The virtual version of this course is delivered over five 5.5-hour days (i.e., 8:00 a.m. to 1:30 p.m.).

Continuing Education Units: 3.0

This course is not open to consultants, contractors, or any private entities.

This course is offered free of charge to all registrants who are confirmed to attend.



## Safety Officer

ERTPVU: <https://www.ertpvu.org/ClassroomCourseDetail.aspx?id=27>

Trainex: <https://trainex.org/offeringlist.cfm?courseid=470>

Delivery: Classroom

This 3-day course meets the training needs of the Safety Officer operating on a Type 2 Incident Management Team (IMT). It is presented in a lecture/discussion format and supplemented with group exercises.

This course is intended for U.S. EPA and U.S. Coast Guard personnel who have completed Incident Command System I-100, 200, 300, 400, IS-700b and IS-800d level courses and who have been identified to fill the Safety Officer or Assistant Safety Officer positions on an IMT.

After completing the course, participants will be able to:

- Arrive at the incident, properly equipped, gather information to assess the assignment, and begin initial planning activities of a Safety Officer
- Identify, prioritize, and mitigate hazards and risks on the incident
- Plan, staff, and manage the safety organization to meet the needs of the incident
- Coordinate and plan with the command and general staff to assist in safely accomplishing the overall incident objectives
- Ensure that the preparation of special reports for the final incident package and incident close out with agency administrator is completed

Continuing Education Units: 2.4

This course is not open to consultants, contractors, or any private entities.

This course is offered free of charge to all registrants who are confirmed to attend.



## Situation Unit Leader

ERTPVU: <https://www.ertpvu.org/ClassroomCourseDetail.aspx?id=33> (classroom/virtual)

Trainex: <https://trainex.org/offeringlist.cfm?courseid=467> (classroom)

<https://trainex.org/offeringlist.cfm?courseid=1880> (virtual)

Delivery: Classroom, Virtual

This 3-day course provides participants with coursework and hands-on training for the position of Situation Unit Leader on a Type 2 Incident Management Team. It covers the role and responsibilities of a Situation Unit Leader and the relationship of the Situation Unit Leader to other personnel within the Incident Command System (ICS). The student will become familiar with the various incident-related documents and software programs that may be used by the Situation Unit Leader.

Instructional methods include lectures, videos, class discussions, graded evaluation, and group exercises. Graded evaluations will be given at the end of each instructional unit and there will be a final evaluation. A certificate of course completion will be awarded to those students who have 100% attendance and who obtain a total course score of 70% or higher.

This course is intended for U.S. EPA and U.S. Coast Guard personnel who have completed the Incident Command System courses I-100, 200, 300, and 400, and IS-700b and IS-800d, and who have been identified to be part of an Incident Management Team.

After completing the course, participants will be able to:

- Identify the Situation Unit's mission and function
- Understand the management and leadership function of the Situation Unit Leader
- Describe the positions in the Situation Unit and the duties of each position
- Define the interactions of the SITL with other functional positions in the incident management team
- Describe the types of and sources of information that the Situation Unit utilizes
- List the products that the Situation Unit prepares or assists in preparing
- Complete a Situation Report (SitRep)

The classroom version of this course is delivered over three days (24 hours).

The virtual version of this course is delivered over four 4.5-hour days (i.e., 8:00 a.m. to 12:30 p.m.).

Continuing Education Units: 2.4

This course is not open to consultants, contractors, or any private entities.

This course is offered free of charge to all registrants who are confirmed to attend.



# Oil Response Training

## National Deliveries

National Oil Response Training courses are typically delivered at the EPA ERT Warehouse in Erlanger, Kentucky or some other central location with the intent that any EPA Region may send a limited number of personnel to the training delivery. The courses are open to Federal, State, Local, and Tribal partners, with U.S. EPA On-Scene Coordinators (OSC's) and U.S. Coast Guard staff having priority registration preference.

## Oil Pollution Act 101 (National Delivery)

ERTPVU: <https://www.ertpvu.org/ClassroomCourseDetail.aspx?id=66> (classroom/virtual)

Trainex: <https://www.trainex.org/offeringslist.cfm?courseid=1977> (classroom)  
<https://trainex.org/offeringslist.cfm?courseid=1944> (virtual)

Delivery: Classroom, Virtual

This 4-day course is designed for On-Scene Coordinators (OSCs) from the U.S. Environmental Protection Agency (EPA). The goal of this course, which covers portions of the *National Contingency Plan* and the *Oil Pollution Act of 1990*, is to introduce new OSCs and refresh current OSCs on the regulations, funding, and methodology for responding to oil spills.

This course may be delivered in-person (at the EPA ERT Warehouse in Erlanger, Kentucky) or virtually.

Topics covered in this course include the Oil Pollution Act of 1990, National Contingency Plan, understanding oil spill basics, accessing and using the Oil Spill Liability Trust Fund, oil spill response, alternative technologies, preparedness and prevention, case studies, and exercises.

Instructional methods include lectures, problem sessions, and interactive exercises that emphasize the practical and problem-solving skills related to spill containment and cleanup.

After completing this course, participants will be able to:

- Discuss how major legislation relates to oil spill containment and cleanup activities
- Identify basic technical issues associated with inland oil spills
- Access and use of the Oil Spill Liability Trust Fund
- Identify the basics of spill prevention, control, and countermeasures
- Understand the use of basic containment and recovery methods
- Discuss various agencies' roles when responding to inland oil spills

Course instructors may include current and former federal and state OSCs who may also serve as technical advisors in oil spill control and cleanup along with U.S. Coast Guard representatives. Other instructors include experienced oil spill responders from the public and private sector.



## **Oil Pollution Act 101 (National Delivery) (continued)**

Class is limited to 30 students and class registration is first-come-first-served.

Continuing Education Units: 3.2

Participants must complete all modules for all days of the course to receive the course completion certificate.

This course is not open to consultants, contractors, or any private entities.

This course is offered free of charge to all registrants who are confirmed to attend.



## Combined Fast/Slow Water (National Delivery)

ERTPVU: <https://www.ertpvu.org/ClassroomCourseDetail.aspx?id=36>

Trainex: <https://trainex.org/offeringlist.cfm?courseid=1978>

Delivery: Classroom

This 5-day course is designed primarily for On-Scene Coordinators (OSCs) from the U.S. Environmental Protection Agency (EPA), state agencies, and other first responders is delivered at the EPA ERT Warehouse in Erlanger, Kentucky. The goal of this course is to have participants learn then demonstrate containment and recovery techniques for an inland oil spill in either a fast or slow water environment. Participants will learn boater safety; operate boats and deploy containment boom on lakes or rivers; provide protection to shorelines and sensitive areas; establish an oil recovery site; and install weirs, underflow dams and filter fences on streams.

This course will be delivered in-person. Instructional methods include classroom instruction, case studies, and primarily on-water field work.

After completion of the course, the participants will be able to demonstrate or discuss small boat safety and operations, various methods of containment boom deployment and anchoring, recovery site selection and operations, and health and safety issues relevant to oil spill response and recovery operations. All this will be based on the topics presented, situations covered, and suitability of the selected location(s) for delivery.

Course instructors may include current and former federal and state OSCs who may also serve as technical advisors in oil spill control and cleanup. Other instructors include experienced oil spill responders from the public and private sectors.

This course includes hands-on field activities that can be strenuous. \*Attendees will need to wear appropriate attire for fieldwork and on-water operations. This includes appropriate work gloves, eye protection, footwear, and outerwear for foul weather. Attendees are encouraged to bring their own sunscreen, insect repellent, and Personal Flotation Device (PFD) since supplies will be limited.\*

Class is limited to 30 students.

Continuing Education Units: 4.0

Participants must complete all modules for all days of the course to receive the course completion certificate.

This course is not open to consultants, contractors, or any private entities.

This course is offered free of charge to all registrants who are confirmed to attend.



## Regional Deliveries

Regional Oil Response Training course deliveries are hosted by a specific EPA Region and typically include primarily EPA personnel and their regional response partners (other federal, state, local, and private entities)

## Oil Pollution Act 101 (Regional Delivery)

ERTPVU: <https://www.ertpvu.org/ClassroomCourseDetail.aspx?id=66> (classroom/virtual)

Trainex: <https://trainex.org/offeringlist.cfm?courseid=1391> (classroom)  
<https://trainex.org/offeringlist.cfm?courseid=1944> (virtual)

Delivery: Classroom, Virtual

This 4-day course is designed for On-Scene Coordinators (OSCs) from the U.S. Environmental Protection Agency (EPA) is delivered at EPA Regional locations. The goal of this course, which covers portions of the *National Contingency Plan* and the *Oil Pollution Act of 1990*, is to introduce new OSCs and refresh current OSCs on the regulations, funding, and methodology for responding to oil spills. This course will be delivered in-person and is designed to meet a portion of the Oil Regulatory Program requirements.

Topics covered in this course include the *Oil Pollution Act of 1990*, *National Contingency Plan*, understanding oil spill basics, accessing and using the Oil Spill Liability Trust Fund, oil spill response, alternative technologies, preparedness and prevention, case studies, and exercises.

When delivered in a specific region, the course typically includes a brief module on a local Geographic Response Plan (GRP).

Instructional methods include lectures, problem sessions, hands-on exercises, and possible site tours that emphasize the practical and problem-solving skills related to spill containment and cleanup.

After completing this course, participants will be able to:

- Discuss how major legislation relates to oil spill containment and cleanup activities
- Understand a region-specific Geographic Response Plan (GRP)
- Identify basic technical issues associated with inland oil spills
- Access and use of the Oil Spill Liability Trust Fund
- Identify the basics of spill prevention, control, and countermeasures
- Use basic containment and treatment technologies
- Discuss various agencies' roles when responding to inland oil spills

Course instructors may include current and former federal and state OSCs who may also serve as technical advisors in oil spill control and cleanup and U.S. Coast Guard representatives. Other instructors include experienced oil spill responders from the public and private sectors.



## **Oil Pollution Act 101 (Regional Delivery) (continued)**

Class is limited to 32 students.

Continuing Education Units: 3.2

Participants must complete all modules for all days of the course to receive the course completion certificate.

This course is not open to consultants, contractors, or any private entities.

This course is offered free of charge to all registrants who are confirmed to attend.



## Combined Fast/Slow Water (Regional Delivery)

ERTPVU: <https://www.ertpvu.org/ClassroomCourseDetail.aspx?id=36>

Trainex: <https://trainex.org/offeringslist.cfm?courseid=1999>

Delivery: Classroom

This 3- to 5-day course can be designed to meet the requests of U.S. Environmental Protection Agency (EPA) Federal On-Scene Coordinators (FOSCs) in their regions, including exercising Geographic Response Plans (GRPs). The goal of this course is to have participants learn, then demonstrate, containment and recovery techniques for an inland oil spill in either a fast or slow water environment. Participants will typically learn boater safety; operate boats and deploy containment boom on lakes or rivers; provide protection to shorelines and sensitive areas; establish an oil recovery site; and install weirs, underflow dams and filter fences on streams. The course can be tailored to a three- to five-day delivery depending on the time allotted and select portions have been delivered in an even shorter timeframe.

This course will be delivered in-person. Instructional methods include classroom instruction, case studies, and primarily on-water field work.

After completion of the course, the participants will be able to demonstrate or discuss small boat safety and operations, various methods of containment boom deployment and anchoring, recovery site selection and operations, and health and safety issues relevant to oil spill response and recovery operations. All this will be based on the topics selected to be presented, situations to be covered, and suitability of the selected location(s) for delivery.

Course instructors may include current and former federal and state OSCs who currently serve as technical advisors in oil spill control and cleanup, and experienced oil spill responders from the private sector.

This course includes hands-on field activities that can be strenuous. \*Attendees will need to wear appropriate attire for fieldwork and on-water operations. This includes appropriate work gloves, eye protection, footwear, and outerwear for foul weather. Attendees are encouraged to bring their own sunscreen, insect repellent, and Personal Flotation Device (PFD) since supplies will be limited.\*

Class is limited to 30 students.

Continuing Education Units: 2.4 to 4.0

Participants must complete all modules for all days of the course to receive the course completion certificate.

This course is not open to consultants, contractors, or any private entities.

This course is offered free of charge to all registrants who are confirmed to attend.



## Slow/Backwater Practical (Regional Delivery)

ERTPVU: <https://www.ertpvu.org/ClassroomCourseDetail.aspx?id=13>

Trainex: <https://trainex.org/offeringslist.cfm?courseid=320>

Delivery: Classroom

This 5-day course is designed for Federal On-Scene Coordinators (FOSCs) from the U.S. Environmental Protection Agency (EPA), the U.S. Coast Guard (USCG), State and Local responders who are involved in inland oil spill prevention and cleanup. The course is a hands-on course that demonstrates oil recovery methods in slow, backwater or marsh environments. Additional emphasis is placed on product recovery techniques in the subsurface to prevent discharges to waterways.

Class participants will be instructed on safe boat handling techniques; boom deployment methods; map reading and use of GPS; safe operations of ATVs; use of various types of diking, damming and filter fences; and oil recovery methods from waterways and subsurface situations.

This course is usually scheduled twice a year (subject to change) or may be requested by EPA FOSCs for presentation at appropriate locations in their region.

Instruction methods include lectures, tabletop exercises and hands-on field work that emphasize the practical and problem-solving skills related to oil spill control and clean-up in slow, backwater, and marsh conditions.

After completing this course, participants will be able to:

- Demonstrate the operation of a work boat in backwater conditions
- Demonstrate proper rope knots to use in oil recovery operations
- Demonstrate how to determine an exact location on a map using longitude and latitude information developed using GPS
- Demonstrate how to find an exact location in the field using GPS
- Demonstrate how to safely operate an ATV
- Demonstrate proper anchor methods for boom on a lake or river
- Deploy boom in a backwater environment for the collection of oil
- Demonstrate proper methods of shoreline protection
- Establish an oil recovery site and operate common oil recovery equipment
- Construct underflow dams, filter fences and weir dams
- Construct interceptor trenches and install French drains and cut-off walls

Course instructors may include current and former federal and state OSCs who currently serve as technical advisors in oil spill control and cleanup, and experienced oil spill responders from the private sector.



## **Slow/Backwater Practical (Regional Delivery) (continued)**

This course includes hands-on field activities that can be strenuous. During certain phases of the course, class participants may enter the water. All participants will handle the course equipment throughout the week. Attendees will need to wear appropriate attire for fieldwork and on-water operations. This includes appropriate work gloves, eye protection, approved field boots (steel toe), and outerwear for foul weather. Attendees are encouraged to bring their own sunscreen, insect repellent, sharp clip knife, hat, and Personal Flotation Device (PFD) since supplies will be limited.\*.

Unless otherwise specified, THIS COURSE IS FOR U.S. EPA ONLY, PRIMARILY FOR ON-SCENE COORDINATORS.

Class is limited to 30 students. Please contact ERT for additional information.

Continuing Education Units: 4.0

Participants must complete all modules for all days of the course to receive the course completion certificate.

This course is not open to consultants, contractors, or any private entities.

This course is offered free of charge to all registrants who are confirmed to attend.



# Radiation Safety

## Advanced Radiation Safety for EPA Emergency Responders

ERTPVU: <http://ertpvu.org/ClassroomCourseDetail.aspx?id=40>

Trainex: <https://trainex.org/offeringlist.cfm?courseid=1414>

Delivery: Classroom

This 2-day advanced radiation safety course is designed to meet the advanced radiation safety training requirements for Emergency Responders as stated in U.S. EPA Safety, Health and Environmental Management Program (SHEMP) Guide 38, and the U.S. EPA Emergency Responder Health and Safety Manual. This course is intended for U.S. EPA Emergency Responders who engage in emergency response activities or manage a removal site where the potential for exposure to ionizing radiation exists. This course will provide emergency responders with essential tools and information necessary to address radiation responses and removal actions.

Participants who attend this course are expected to have met the basic radiation safety training requirements for emergency responders as stated in U.S. EPA Safety, Health and Environmental Management Program (SHEMP) Guide 38, and the U.S. EPA Emergency Responder Health and Safety Manual. Participants needing to meet the basic radiation safety training requirements and gain a knowledge and understanding of the fundamental principles of radiation safety will benefit from attending the Radiation Safety Overview For Environmental Professionals course prior to attending this course.

Topics that are discussed include radiation detection equipment; initial site surveys; dose limits and control; regional health physics support; posting requirements; placard and labeling; and EPA's radiation response resources and assets.

Instructional methods include presentations, class discussions, demonstrations, and exercises that provide the use of hands-on radiation detection equipment.

After completing the course, participants will be able to:

- Discuss procedures and techniques that have been established for using radiation detection equipment
- Discuss initial site surveys and perform radiation surveys safely
- Implement procedures for securing expert radiation safety or health physics assistance
- Identify work practices and supervisory techniques that can be used to ensure employee exposure is as low as reasonably achievable
- Discuss procedures for allowing exposures that may exceed the Administrative Control Level of 500 mrem per year
- Identify EPA radiation response resources and assets



## **Advanced Radiation Safety for EPA Emergency Responders (continued)**

The successful completion of an examination must be demonstrated by the student attaining a score of 80 percent or higher.

Continuing Education Units: 1.2

NOTE: The course training materials and duration may be modified based on regional needs. The presentation of this course is coordinated between the ERTTP and the designated regional training coordinators.

THIS COURSE IS NOT OPEN TO CONSULTANTS, CONTRACTORS, OR ANY PRIVATE ENTITIES. Enrollment for this course is limited to EPA personnel or by invitation.

This course is offered free of charge to all registrants who are confirmed to attend.

This course requires two rooms plus a vehicle area. A large amount of equipment will be shipped.



## Radiation Safety — Overview for Environmental Professionals

ERTPVU: <http://ertpvu.org/ClassroomCourseDetail.aspx?id=15>

Trainex: <https://trainex.org/offeringlist.cfm?courseid=182>

Delivery: Classroom

This 1-day introductory level course is designed to provide participants with an overview and basic understanding of the fundamental principles of radiation safety, provide guidance on EPA radiation exposure limits for site work involving radioactive materials, and provide information on radiological area posting requirements. This course is intended for environmental professionals who are not health physicists or other radiation safety specialists but require a basic knowledge and understanding of radiation safety. Participants who are responsible for reviewing and discussing radiological issues will benefit from this course.

Topics that are discussed include fundamental concepts of atomic structure, radiation, and radioactive decay; methods and characteristics of radiation interaction with matter; radiation dose limits and basic methods to control radiation exposures, biological effects of radiation, and posting requirements.

Instructional methods include lectures, class discussions, and demonstrations.

After completing the course, participants will be able to:

- Discuss basic terminology and fundamental principles of radiation
- Identify the three primary types and characteristics of ionizing radiation
- Identify radiation dose limits and explain basic methods to control exposures
- Discuss biological effects of radiation
- Identify radiological area postings

The successful completion of an examination must be demonstrated by the student attaining a score of 80 percent or higher.

ABIH has previously awarded CM credit for this event. The current event contains 6 hours which can be claimed from ABIH for CM credit.

Continuing Education Units: 0.6

**THIS COURSE IS NOT OPEN TO CONSULTANTS, CONTRACTORS, OR ANY PRIVATE ENTITIES.**

This course is offered free of charge to all registrants who are confirmed to attend.

This course requires three rooms. This course has a large amount of equipment that will be shipped.



## Radiation Safety — Practical Applications

ERTPVU: <https://ertpvu.org/ClassroomCourseDetail.aspx?id=16>

Trainex: <https://trainex.org/offeringslist.cfm?courseid=183>

Delivery: Classroom

This 2-day radiation safety course is designed for environmental professionals who may be involved in the investigation, assessment, and evaluation of radiologically contaminated sites. This course is intended for environmental professionals who require the skills necessary to detect the presence of radioactive materials and perform radiation and contamination surveys to evaluate and control radiological hazards.

The course emphasizes the hands-on use of radiation detection instruments to control personal safety and characterize the nature and extent of radioactive contamination. Participants will gain hands-on experience with radiation detection instruments and be trained in the basic principles of radiological controls.

In addition, this course provides training on EPA guidance to experienced environmental professionals who may be responsible for regulatory compliance to protect site workers and the public, and who may have to assess and evaluate site radiological conditions. EPA's radiation response resources will also be discussed.

Participants who attend this course are expected to have a basic knowledge and understanding of the fundamental principles of radiation safety. Participants needing a basic knowledge and understanding of the fundamental principles of radiation safety will benefit from attending the "Radiation Safety - Overview for Environmental Professionals" course prior to attending this course. Participants are encouraged to request both courses when registering.

Topics that are discussed include practical applications of radiation detection instruments; methods for controlling radiation exposure; guidance on contamination control and simple decontamination; guidance on regulatory requirements; and EPA's radiation response resources.

Instructional methods include lectures, class discussions, demonstrations, and exercises that combine the use of hands-on equipment with practical applications.

After completing the course, participants will be able to:

- Detect the presence of radioactive materials while performing investigations at hazardous waste sites
- Implement methods for control of radiation exposure and contamination.
- Discuss methods for simple radioactive decontamination
- Identify regulations, consensus standards, and guidance that pertain to EPA personnel engaged in radiological field work
- Identify EPA radiation response resources



## **Radiation Safety—Practical Applications (continued)**

Participants should be prepared to don and doff anti-contamination clothing such as coveralls, hoods, boots, and gloves. Respirators will not be worn.

The successful completion of an examination must be demonstrated by the student attaining a score of 80 percent or higher.

Continuing Education Units: 1.2

ABIH (American Board of Industrial Hygienists) has previously awarded CM (Certification Maintenance) credit for this event. The current event contains 12 hours which can be claimed from ABIH for CM credit.

This course requires three rooms. This course has a large amount of equipment that will be shipped.

**THIS COURSE IS NOT OPEN TO CONSULTANTS, CONTRACTORS, OR ANY PRIVATE ENTITIES.**

This course is offered free of charge to all registrants who are confirmed to attend.



# Remediation

## Environmental Remediation Technologies

ERTPVU: <https://www.ertpvu.org/ClassroomCourseDetail.aspx?id=4>

Trainex: <https://trainex.org/offeringlist.cfm?courseid=2>

Delivery: Classroom

This 3-day introductory-level course provides participants with an overview of the treatment technologies most frequently used for cleanups of contaminated media. The emphasis of the course is on the technology description, applicability, and limitations of appropriate treatment technologies. It is intended for new On-Scene Coordinators, Remedial Project Managers, Waste Site Managers, and other environmental personnel interested in remediation.

Topics that are discussed include site characterization; fate and transport; technology screening; capping and containment; basic water treatment; chemical reactions and separations; sediment remediation; in-situ treatments; phytoremediation; bioremediation; natural monitored attenuation; soil washing and immobilization; thermal treatment; and process testing.

Training methods include lectures and group problem-solving exercises. Case studies are used to demonstrate applications of treatment technologies. Group discussions relevant to the course are encouraged.

After completing the course, participants will be able to:

- Evaluate appropriate techniques to assess, stabilize, and screen potential remedies for contaminated sites
- Identify the processes and explain the limitations of the most frequently used treatment technologies
- Identify resources that describe innovative treatment technologies

Continuing Education Units: 1.9

This course is not open to consultants, contractors, or any private entities.

This course is offered free of charge to all registrants who are confirmed to attend.

NOTE: Course is temporarily on hold for update and revision. Self-paced modules for seven Environmental Remediation Technologies courses are available online at ERTPVU.org



# Risk Assessment

## Introduction to Ecological Risk Assessment Guidance for RCRA/Superfund

ERTPVU: <https://www.ertpvu.org/ClassroomCourseDetail.aspx?id=54>  
Trainex: <https://trainex.org/offeringlist.cfm?courseid=1491>

Delivery: Classroom

This 2.5-day course provides participants with the fundamentals of ecological risk assessment as applied to the RCRA and Superfund cleanup process. This course will also discuss the application of the ecological risk process to other non-chemical stressors. This course is designed to present an introduction of the ecological risk assessment process to Project Managers, On-Scene Coordinators, Risk Assessment Reviewers, and potentially new Risk Assessors working at hazardous waste sites or treatment, storage and disposal facilities. The course assumes little experience with toxicology and risk assessment or knowledge regarding ecological risk assessment guidance.

The course is based on the following EPA documents:

- Ecological Risk Assessment Guidance for Superfund: Process for Designing and Conducting Ecological Risk Assessments - Interim Final (<https://semspub.epa.gov/work/HQ/157941.pdf>);
- Guidelines for Ecological Risk Assessment ([https://www.epa.gov/sites/default/files/2014-11/documents/eco\\_risk\\_assessment1998.pdf](https://www.epa.gov/sites/default/files/2014-11/documents/eco_risk_assessment1998.pdf)).

The risk assessment process is presented in an introductory format. The overall goal of the course is for the student to have a good understanding of the ecological risk assessment guidance associated with Hazardous Waste Programs.

Topics include screening level ecological risk assessment; baseline ecological risk assessment; preliminary remediation goals; applicable statutes, regulations and guidance; data collection and evaluation; exposure assessment; toxicity assessment; risk characterization; principles of ecological assessment; ecological risk assessment guidance; and ecological data collection methods. Current technical and information resources will also be discussed.

Instructional methods include lectures, videos, class discussions, and group exercises.

After completing this course, participants will be able to:

- Describe ecological risk assessment and risk management
- Identify the applicable regulations and guidance pertinent to ecological risk assessments at hazardous waste sites
- Describe each of the four steps of the risk assessment paradigm
- Describe the eight-step process for ecological risk assessment



## **Introduction to Ecological Risk Assessment Guidance for RCRA/Superfund (continued)**

- Identify and describe some of the data collection methods specific to ecological risk assessments
- Review an ecological risk assessment

Continuing Education Units: 1.8

This course is not open to consultants, contractors, or any private entities.

This course is offered free of charge to all registrants who are confirmed to attend.



## Introduction to Risk Assessment Guidance for Superfund

ERTPVU: <https://www.ertpvu.org/ClassroomCourseDetail.aspx?id=10>

Trainex: <https://trainex.org/offeringlist.cfm?courseid=24>

Delivery: Classroom

This 2.5-day course provides participants with the fundamentals of risk assessment as applied to the Superfund cleanup process. This course is designed to present an introduction of the Superfund risk assessment process to Project Managers, On-Scene Coordinators, Risk Assessment Reviewers, and potentially new Risk Assessors working at hazardous waste sites or treatment, storage and disposal facilities. The course assumes little experience with toxicology and risk assessment or knowledge regarding Superfund risk assessment guidance.

The course is based on the following EPA documents:

- Risk Assessment Guidance for Superfund (RAGS): Volume I - Human Health Evaluation Manual (Parts A, B, C, and D) (The student is also introduced to RAGS Parts E and F)
- Ecological Risk Assessment Guidance for Superfund: Process for Designing and Conducting Ecological Risk Assessments - Interim Final (<https://semspub.epa.gov/work/HQ/157941.pdf>)
- Guidelines for Ecological Risk Assessment ([https://www.epa.gov/sites/default/files/2014-11/documents/eco\\_risk\\_assessment1998.pdf](https://www.epa.gov/sites/default/files/2014-11/documents/eco_risk_assessment1998.pdf))

The risk assessment process is presented in an introductory format. The overall goal of the course is for the student to have a good understanding of the risk assessment guidance associated with Superfund. This course consists of 2 days of primarily human health risk assessment instruction and 0.5 days of ecological risk assessment instruction.

Topics include baseline risk assessment, preliminary remediation goals; applicable statutes, regulations, and guidance; data collection and evaluation; exposure assessment; toxicity assessment; risk characterization; principles of ecological assessment; ecological risk assessment guidance for Superfund; and ecological data collection methods. Current technical and information resources will also be discussed.

Instructional methods include lectures, videos, class discussions, and group exercises.

After completing this course, participants will be able to:

- Describe risk assessment and risk management
- Identify the applicable statutes, regulations, and guidance pertinent to human health and ecological risk assessments under Superfund
- Describe each of the four steps of the risk assessment paradigm
- Describe the eight-step process for ecological risk assessment



## **Introduction to Risk Assessment Guidance for Superfund (continued)**

- Identify and describe similarities and differences between human and ecological risk assessments
- Identify and describe some of the data collection methods specific to ecological risk assessments
- Review and have a better understanding of Superfund risk assessments

Continuing Education Units: 1.7

ABIH has previously awarded CM credit for this event. The current event contains 17 hours which can be claimed from ABIH for CM credit.

This course is not open to consultants, contractors, or any private entities.

This course is offered free of charge to all registrants who are confirmed to attend.



## Introduction to Risk Assessment Guidance with Expanded Eco-Risk

ERTPVU: <https://www.ertpvu.org/ClassroomCourseDetail.aspx?id=50>

Trainex: <https://trainex.org/offeringlist.cfm?courseid=1561>

Delivery: Classroom

This 3.5-day course provides participants with the fundamentals of risk assessment as applied to the Superfund cleanup process. This course is designed to present an introduction to the Superfund risk assessment process to Project Managers, On-Scene Coordinators, Risk Assessment Reviewers, and potentially new Risk Assessors working at hazardous waste sites or treatment, storage, and disposal facilities. The course assumes little experience with toxicology and risk assessment or knowledge regarding Superfund risk assessment guidance.

The course is based on the following EPA documents:

- Risk Assessment Guidance for Superfund (RAGS): Volume I - Human Health Evaluation Manual (Parts A, B, C, and D) (The student is also introduced to RAGS Parts E and F).
- Ecological Risk Assessment Guidance for Superfund: Process for Designing and Conducting Ecological Risk Assessments - Interim Final (<https://semspub.epa.gov/work/HQ/157941.pdf>)
- Guidelines for Ecological Risk Assessment ([https://www.epa.gov/sites/default/files/2014-11/documents/eco\\_risk\\_assessment1998.pdf](https://www.epa.gov/sites/default/files/2014-11/documents/eco_risk_assessment1998.pdf))

The risk assessment process is presented in an introductory format. The overall goal of the course is for the student to have a good understanding of the risk assessment process associated with Superfund (and similar) sites. Additionally, the student is introduced to many of the primary EPA guidance documents used to prepare Superfund risk assessments. This course consists of 2 days of primarily human health risk assessment instruction and 1.5-days of ecological risk assessment instruction.

Topics include baseline risk assessment; screening level ecological risk assessment; preliminary remediation goals; applicable statutes, regulations, and guidance; data collection and evaluation; exposure assessment; toxicity assessment; risk characterization; uncertainty analysis, principles of ecological assessment; ecological risk assessment guidance for Superfund; and ecological data collection methods. Current technical and information resources will also be discussed.

Instructional methods include lectures, videos, class discussions, and group exercises.

After completing this course, participants will be able to:

- Describe risk assessment and risk management
- Identify the applicable statutes, regulations, and guidance pertinent to human health and ecological risk assessments under Superfund



## **Introduction to Risk Assessment Guidance with Expanded Eco-Risk (continued)**

- Describe each of the four steps of the risk assessment paradigm
- Describe the eight-step process for ecological risk assessment
- Identify and describe similarities and differences between human and ecological risk assessments
- Identify and describe some of the data collection methods specific to ecological risk assessments
- Review and have a better understanding of Superfund risk assessments

ABIH has previously awarded CM credit for this event. The current event contains 27 hours which can be claimed from ABIH for CM credit.

Continuing Education Units: 2.7

This course is not open to consultants, contractors, or any private entities.

This course is offered free of charge to all registrants who are confirmed to attend.



# Sampling

## Sampling for Hazardous Materials

ERTPVU: <https://www.ertpvu.org/ClassroomCourseDetail.aspx?id=20>

Trainex: <https://trainex.org/offeringslist.cfm?courseid=20>

Delivery: Classroom

This 2-day introductory course provides classroom and field instruction for the environmental sampling of soil, groundwater, surface water, sediment and waste. It is intended for individuals with no sampling experience, personnel performing program inspection or oversight, and as a refresher for those returning to field activities.

A variety of methods and types of sampling equipment are presented, demonstrated, and made available for hands-on-experience. New emerging technologies are discussed in classroom modules along with the traditional standards. Air sampling is specifically addressed in "Air Monitoring for Hazardous Materials" and is not discussed in this course.

Sampling basics are presented for waste, groundwater, soils, surface water, and sediments. Concepts of sampling plan development and field screening are summarized to familiarize the student with the Triad approach to sample planning. Fundamentals of documentation and decontamination are conveyed in their primary importance relating to the entire process of collecting a defensible, representative sample. Field exercises reinforce classroom presentation and field demonstrations.

The course is designed to be consistent with the EPA protocol and guidance as presented in *EPA Superfund Program Representative Sampling Guidance*. New technology guidance is derived from *Interstate Technological Research Council (ITRC)* and *United States Geological Survey (USGS)* studies and other publications.

After completing the course, participants will be able to:

- Discuss the Triad sampling strategy and basis for selection of sampling designs
- Apply protocols for the collection of a representative sample from a variety of environmental media and waste
- Complete required sample documentation, including labels and chain of custody for delivery of a defensible sample to an analytical laboratory

Continuing Education Units: 1.4

ABIH (American Board of Industrial Hygienists) has previously awarded CM (Certification Maintenance) credit for this event. The current event contains 14 hours which can be claimed from ABIH for CM credit.

This course is not open to consultants, contractors, or any private entities.

This course is offered free of charge to all registrants who are confirmed to attend.



# Uniform Federal Policy — Quality Assurance Project Plan UFP — QAPP

ERTPVU: <https://www.ertpvu.org/ClassroomCourseDetail.aspx?id=67> (classroom/virtual)

Trainex: <https://trainex.org/offeringlist.cfm?courseid=1975> (classroom)

<https://trainex.org/offeringlist.cfm?courseid=1974> (virtual)

Delivery: Classroom, Virtual

This 1-day course is designed to gain participant buy-in regarding the need for QAPPs, provide technical guidance for reviewing the UFP-QAPP format, and instruct participants in using UFP-QAPPs as an effective tool to plan projects involving U.S. EPA environmental information (not just lab data) gathering activities. The course targets project decision makers, remedial project managers (RPM), on-scene coordinators (OSC), information end users, and quality assurance (QA) personnel, as well as technical staff who support planning and environmental information collection, processing, validation, and use. This course emphasizes aspects of the UFP-QAPP that project managers/decision makers need to focus on, but also provides an overview of those parts of a UFP-QAPP that are largely chemistry-related and for which chemists and other technical specialists would be responsible. The course teaches decision makers and technical support personnel what should go into UFP-QAPPs, i.e., how to manage, review, and use them for project planning, NOT how to write them. The course will involve three primary modes of teaching: lectures with audio-visual aides, exercises for course participants using example UFP-QAPP worksheets, and plenty of time for answering participant questions and open discussion.

This course is intended for EPA Project Managers, project planners, decision makers, information end users, chemists, subject matter experts, lab procurement specialists, technical auditors, information validators, information assessors, and QA Managers; basically, anyone involved in any phase of environmental information (not just lab data) planning, gathering, analysis, validation, interpretation, use, and decision making.

After completing the course, participants will be able to:

- Understand that you must have QAPPs for your environmental investigations and learn why you will want them.
- Know that the heart of your project and of the QAPP is planning and developing the problem statement, objectives, the decisions that you need to make, and the information you need to gather to make those decisions.
- Know that chemistry is in the service of project planning and decision making – chemistry gets you the information you need to make your decisions.
- Gain understanding of elements of a UFP-QAPP that focus on:
  - Project planning
  - Defining the problem in the form of well thought out questions that support the decisions that need to be made



## UFP — QAPP (continued)

- Setting objectives, including determining the information you need to make the decisions
- Establishing decision-making criteria
- Defining project action limits and analytical sensitivity needs
- Defining field sampling activities and requirements
- Defining the information usability assessment process for assessing whether the information gathered is of sufficient type, quantity, and quality to enable decision-making
- Learn:
  - To carefully consider who the information end users are and get their help in planning
  - What to look for in your UFP-QAPP to make sure that it will achieve the objectives of the investigation
  - About the chemistry-related elements of a UFP-QAPP and what needs to be in them
  - That project managers do not need to know the chemistry content in detail, but that they should pass on those parts of the QAPP to their technical experts to review

Continuing Education Units: 0.8

This course is not open to consultants, contractors, or any private entities.

This course is offered free of charge to all registrants who are confirmed to attend.



# Online Courses

## CERCLA Education Center

### Heavy Equipment Overview Training for Site Managers (Yellow Iron)

ERTPVU: [https://ertpvu.org/online\\_courses/OnlineCourseDetail.aspx?id=89](https://ertpvu.org/online_courses/OnlineCourseDetail.aspx?id=89)

Delivery: Online

This course provides a general awareness-level overview of the most common types of heavy equipment, often referred to as “yellow iron” that site managers may need to use on a response action. The purpose of the online course is to give new EPA site managers, or those unfamiliar with heavy equipment, a guided tour of the typical types of heavy equipment a site manager may encounter at a hazardous waste site cleanup. Although the examples and scenarios in this training are removal-based actions, the equipment and concepts presented are relevant to all site managers including On-Scene Coordinators, Remedial Project Managers, and other site managers

Upon completion of this course, you should be better able to:

- Identify some of the considerations for selecting equipment suitable for different types of response actions
- Describe health and safety considerations for working with heavy equipment including both pre-use considerations and operational considerations
- Describe the most common types of heavy equipment that may be needed for a response action, including alternative equipment names, operational descriptions, different equipment attachments, and operational constraints and challenges
- Identify some specialized equipment that site managers may need for less common response actions and unique circumstances

This course is designed for new site managers with less than two years’ experience and limited field experience. More experienced site managers may find this course useful as a refresher or as a resource to obtain information on different types of heavy equipment that may be needed for a response action.



# Chemistry for Environmental Professionals

## Understanding a Contractor's Analytical Data Report

ERTPVU: [https://ertpvu.org/online\\_courses/OnlineCourseDetail.aspx?id=74](https://ertpvu.org/online_courses/OnlineCourseDetail.aspx?id=74)

Delivery: Online

This presentation is designed to provide students with tools for understanding the elements of an analytical data table and how the elements are to be used to critically examine the data presentation and determine how well it supports the conclusions and decisions that need to be made. The target audience for this presentation are project managers, regulators and stakeholders, who are not analytical chemists or chemistry experts.

The topics of this presentation include:

- Why site assessments are done
- The elements of a typical analytical data table
- The purpose and implication of data qualifiers
- The types of quality assurance samples and how their results may affect decision-making

This presentation is an on-line adaption of a webinar presentation, delivered on August 28, 2014, to the U.S. EPA-sponsored UST National Tribal Meeting. The presenters and authors, were JoAnn Eskelsen, of the U.S. EPA Environmental Response Team (retired), and Environmental Response Training Program contractor, Tom Spargo, of Tetra Tech.



# **Contract Laboratory Program (CLP)**

## **Fundamentals of the Contract Laboratory Program Part 1: Introduction to the CLP**

ERTPVU: [https://ertpvu.org/online\\_courses/OnlineCourseDetail.aspx?id=23](https://ertpvu.org/online_courses/OnlineCourseDetail.aspx?id=23)

Delivery: Online

This training is Part 1 of a two-part introduction to the Contract Laboratory Program (CLP). Topics include what it does, how it works, and who makes it happen. Estimated completion time for this module is 35 minutes.

## **Fundamentals of the Contract Laboratory Program Part 2: CLP Products and Services**

ERTPVU: [https://ertpvu.org/online\\_courses/OnlineCourseDetail.aspx?id=24](https://ertpvu.org/online_courses/OnlineCourseDetail.aspx?id=24)

Delivery: Online

This training is Part 2 of a two-part introduction to the Contract Laboratory Program (CLP). Topics include products, services, programs, and activities that have vastly improved analytical response times and expanded the productivity of cleanup activities. Estimated completion time is 35 minutes.



# Environmental Remediation Technologies

## Basic Water Treatment

ERTPVU: [https://ertpvu.org/online\\_courses/OnlineCourseDetail.aspx?id=79](https://ertpvu.org/online_courses/OnlineCourseDetail.aspx?id=79)

Delivery: Online

This module is part of a series of Environmental Remediation Technologies modules designed to provide participants with an overview of the treatment technologies most frequently used for cleanup of contaminated media. The emphasis of these modules is on process descriptions, applicability, and limitations of specific categories of treatment technologies.

This training is intended for new On-Scene Coordinators, Remedial Project Managers, Waste Site Managers, and other environmental professionals considering the use of a basic water treatment system (the entire system or parts of major system components).

This module primarily discusses the working mechanisms, advantages, and disadvantages of some common ex-situ water treatment processes, such as the following:

- Oil/water separation
- Precipitation in a continuously stirred tank reactor
- Sand filtration
- Clarification
- Air stripping
- Activated carbon adsorption

This module is the first of a two-part discussion. Though not required, participants may find it beneficial to complete the Chemical Reactions and Separations module after completing this module.



## Capping and Containment

ERTPVU: [https://ertpvu.org/online\\_courses/OnlineCourseDetail.aspx?id=78](https://ertpvu.org/online_courses/OnlineCourseDetail.aspx?id=78)

Delivery: Online

This module is part of a series of Environmental Remediation Technologies training modules designed to provide participants with an overview of the treatment technologies most frequently used for cleanup of contaminated media. The emphasis of these modules is on process descriptions, applicability, and limitations of specific categories of treatment technologies.

This training is intended for new On-Scene Coordinators, Remedial Project Managers, Waste Site Managers, and other environmental professionals considering the use of capping or containment as a remediation option or as part of a larger remediation project.

This module discusses the general designs, advantages, and limitations of two distinct treatment technologies, which consist of capping and containment systems. These systems include:

- Simple caps
- Multi-stage caps
- Bioreactor landfill caps
- Slurry cutoff trench containment systems
- Grout curtain containment systems
- Sheet pile wall containment systems



## Chemical Reactions and Separations

ERTPVU: [https://ertpvu.org/online\\_courses/OnlineCourseDetail.aspx?id=80](https://ertpvu.org/online_courses/OnlineCourseDetail.aspx?id=80)

Delivery: Online

This module is part of a series of Environmental Remediation Technologies training modules designed to provide participants with an overview of the treatment technologies most frequently used for cleanup of contaminated media. The emphasis of these modules is on the process description, applicability, and limitations of specific categories of treatment technologies.

This module is intended for new On-Scene Coordinators, Remedial Project Managers, Waste Site Managers, and other environmental personnel interested in remediation.

The Chemical Reactions and Separations module first discusses the working mechanisms, advantages, and disadvantages of ex-situ reaction systems:

- neutralization
- chemical precipitation
- reduction
- two types of oxidation systems.

This module also discusses the working mechanisms, advantages, and disadvantages of ex-situ separation systems:

- plate-and-frame filtration
- microfiltration
- reverse osmosis
- ion exchange.

Another closely related Environmental Remediation Technologies module is the Basic Water Treatment module. It introduces concepts and covers some applicable basic water treatment technologies that are not repeated in the Chemical Reactions and Separations module. Though not required, participants may find it beneficial to complete the Basic Water Treatment module before viewing the Chemical Reactions and Separations module.



## In-situ Treatments Part 1

ERTPVU: [https://ertpvu.org/online\\_courses/OnlineCourseDetail.aspx?id=40](https://ertpvu.org/online_courses/OnlineCourseDetail.aspx?id=40)

Delivery: Online

This module is part of a series of Environmental Remediation Technologies training modules designed to provide participants with an overview of the treatment technologies most frequently used for cleanup of contaminated media. The emphasis of these modules is on process descriptions, applicability, and limitations of specific categories of treatment technologies.

This training is intended for new On-Scene Coordinators, Remedial Project Managers, Waste Site Managers, and other environmental professionals considering the use of in-situ treatment options.

This module primarily discusses two distinct in-situ treatment technologies, soil vapor extraction (SVE) and air sparging. Monitored natural attenuation (MNA) is also introduced in the module. This module accomplishes the following objectives:

- Recognizes the advantages and disadvantages of in-situ treatment
- Identifies the different in-situ treatment methods for saturated and unsaturated zones
- Describes the principles of MNA, SVE, enhanced SVE, and air sparging treatment methods
- Explains the factors needed for a successful MNA, SVE, enhanced SVE, and air sparging treatment system



## In-situ Treatments Part 2

ERTPVU: [https://ertpvu.org/online\\_courses/OnlineCourseDetail.aspx?id=25](https://ertpvu.org/online_courses/OnlineCourseDetail.aspx?id=25)

Delivery: Online

This module is part of a series of Environmental Remediation Technologies training modules designed to provide participants with an overview of the treatment technologies most frequently used for cleanup of contaminated media. The emphasis of these modules is on process descriptions, applicability, and limitations of specific categories of treatment technologies.

This training is intended for new On-Scene Coordinators, Remedial Project Managers, Waste Site Managers, and other environmental professionals considering the use of in-situ treatment options.

This module discusses two distinct in-situ treatment technologies, permeable reactive barriers, and chemical oxidation, and accomplishes the following objectives:

- Describes the advantages, disadvantages, and basic principle of a permeable reactive barrier system
- Explains the advantages, disadvantages, and basic principle of chemical oxidation as a remediation method

This module is the second part of the two-part In-situ Treatment modules. Though not required, participants may find it beneficial to complete the In-Situ Part I module before viewing the In-Situ Part II module.



## Monitored Natural Attenuation

ERTPVU: [https://ertpvu.org/online\\_courses/OnlineCourseDetail.aspx?id=90](https://ertpvu.org/online_courses/OnlineCourseDetail.aspx?id=90)

Delivery: Online

This course provides environmental professionals with a general overview of monitored natural attenuation and key considerations when selecting monitored natural attenuation as a remedial option. Monitored natural attenuation is defined as the reliance on natural processes to achieve a site-specific remedial objective.

Upon completion of the course, participants will be able to accomplish the following objectives:

- Define monitored natural attenuation and its five main processes
- Identify the key considerations when selecting monitored natural attenuation
- Know the advantages and limitations of monitored natural attenuation
- Discuss case studies that demonstrate monitored natural attenuation processes
- Describe screening criteria for the applicability of monitored natural attenuation



## Thermal Treatment

ERTPVU: [https://ertpvu.org/online\\_courses/OnlineCourseDetail.aspx?id=82](https://ertpvu.org/online_courses/OnlineCourseDetail.aspx?id=82)

Delivery: Online

This module is part of a series of Environmental Remediation Technologies modules designed to provide participants with an overview of the treatment technologies most frequently used for cleanup of contaminated media. The emphasis of these modules is on process descriptions, applicability, and limitations of specific categories of treatment technologies.

This training is intended for new On-Scene Coordinators, Remedial Project Managers, Waste Site Managers, and other environmental professionals considering the use of thermal treatment options.

This module accomplishes the following objectives:

- Identifies different types of in-situ and ex-situ thermal treatment systems
- Lists the general advantages and limitations of ex-situ thermal treatment systems
- Describes the components, operation, advantages, and limitations of two ex-situ thermal treatment systems
- Explains off-gas thermal treatment components



# Health and Safety

## H&SEHT Biological Hazards

ERTPVU: [https://ertpvu.org/online\\_courses/OnlineCourseDetail.aspx?id=81](https://ertpvu.org/online_courses/OnlineCourseDetail.aspx?id=81)

Delivery: Online

This Health and Safety Eight-Hour Training module is a makeup module for U.S. EPA employees who have missed this lecture module during their required OSHA HAZWOPER refresher training. It covers identification, adverse effects, and safety precautions for biological hazards that field personnel may encounter. It does not cover blood borne pathogens or biological warfare agents. EPA employees are allowed to only make up a maximum of two modules.

While this module is accessible to non-EPA employees, please note the following:

- These are makeup modules and are not intended to be the full 8-hour refresher training for employees. Other employers should consider the following OSHA statement.
- Computer-based training may meet some refresher training requirements, if it covers topics relevant to workers' assigned duties. It must be supplemented by the opportunity to ask questions of a qualified trainer and by an assessment of hands-on performance of work tasks.
- These modules were designed for EPA employees and may not be relevant to other employee training. The employer should evaluate the applicability of the modules to their situations.
- A certificate of completion is issued for each module. EPA will not issue an 8-hour refresher course completion certificate to non-EPA employees; that will be the responsibility of their employer.
- OSHA requires that an instructor be accessible to answer questions during the training. This is the responsibility of the employer; EPA will not provide that service to non-EPA employees.



## H&SEHT Chemical and Biological Warfare Agents, Toxic Industrial Chemicals

ERTPVU: [https://ertpvu.org/online\\_courses/OnlineCourseDetail.aspx?id=75](https://ertpvu.org/online_courses/OnlineCourseDetail.aspx?id=75)

Delivery: Online

This Health and Safety Eight-Hour Training module is a makeup module for U.S. EPA employees who have missed this lecture module during their required OSHA HAZWOPER refresher training. EPA employees are allowed to only make up a maximum of two modules.

While this module is accessible to non-EPA employees, please note the following:

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- Computer-based training may meet some refresher training requirements, if it covers topics relevant to workers' assigned duties. It must be supplemented by the opportunity to ask questions of a qualified trainer and by an assessment of hands-on performance of work tasks.
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- A certificate of completion is issued for each module. EPA will not issue an 8-hour refresher course completion certificate to non-EPA employees; that will be the responsibility of their employer.
- OSHA requires that an instructor be accessible to answer questions during the training. This is the responsibility of the employer; EPA will not provide that service to non-EPA employees.



## H&SEHT Confinement and Containment

ERTPVU: [https://ertpvu.org/online\\_courses/OnlineCourseDetail.aspx?id=73](https://ertpvu.org/online_courses/OnlineCourseDetail.aspx?id=73)

Delivery: Online

This Health and Safety eight-hour training module is a makeup module for U.S. EPA employees who have missed this lecture module during their required OSHA HAZWOPER refresher training. EPA employees are allowed to only make up a maximum of two modules.

While this module is accessible to non-EPA employees, please note the following:

- These are makeup modules and are not intended to be the full 8-hour refresher training for employees. Other employers should consider the following OSHA statement.
- Computer-based training may meet some refresher training requirements, if it covers topics relevant to workers' assigned duties. It must be supplemented by the opportunity to ask questions of a qualified trainer and by an assessment of hands-on performance of work tasks.
- These modules were designed for EPA employees and may not be relevant to other employee training. The employer should evaluate the applicability of the modules to their situations.
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- OSHA requires that an instructor be accessible to answer questions during the training. This is the responsibility of the employer; EPA will not provide that service to non-EPA employees.



## H&SEHT Decontamination

ERTPVU: [https://ertpvu.org/online\\_courses/OnlineCourseDetail.aspx?id=10](https://ertpvu.org/online_courses/OnlineCourseDetail.aspx?id=10)

Delivery: Online

This Health and Safety Eight-Hour Training module is a makeup module for U.S. EPA employees who have missed this lecture module during their required OSHA HAZWOPER refresher training. EPA employees are allowed to only make up a maximum of two modules.

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- These are makeup modules and are not intended to be the full 8-hour refresher training for employees. Other employers should consider the following OSHA statement.
- Computer-based training may meet some refresher training requirements, if it covers topics relevant to workers' assigned duties. It must be supplemented by the opportunity to ask questions of a qualified trainer and by an assessment of hands-on performance of work tasks.
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- OSHA requires that an instructor be accessible to answer questions during the training. This is the responsibility of the employer; EPA will not provide that service to non-EPA employees.



# H&SEHT EPA's Emergency Responder Health and Safety Manual

ERTPVU: [https://ertpvu.org/online\\_courses/OnlineCourseDetail.aspx?id=47](https://ertpvu.org/online_courses/OnlineCourseDetail.aspx?id=47)

Delivery: Online

EPA's Emergency Responder Health and Safety Manual consists of a series of chapters that outline steps that EPA must take to protect the Agency's emergency responders from job-related injuries, accidents, and exposures to hazardous materials. The manual promotes consistency in the way that OSHA standards, EPA policies, and other guidelines are applied across the Agency and assigns responsibilities for health and safety-related tasks.

All 10 EPA regions, the Environmental Response Team (ERT), the Consequence Management Advisory Team (CMAT), and Headquarters (HQ) must implement the manual. EPA organizations must produce customized versions of each chapter, post them to the Customized Documents Web page on [epaosc.org](http://epaosc.org), and review and update their customized chapters annually.

This Health and Safety Eight-Hour Training module is a makeup module for U.S. EPA employees who have missed this lecture module during their required OSHA HAZWOPER refresher training. EPA employees are allowed to only make up a maximum of two modules.

While this module is accessible to non-EPA employees, please note the following:

- These are makeup modules and are not intended to be the full 8-hour refresher training for employees. Other employers should consider the following OSHA statement.
- Computer-based training may meet some refresher training requirements, if it covers topics relevant to workers' assigned duties. It must be supplemented by the opportunity to ask questions of a qualified trainer and by an assessment of hands-on performance of work tasks.
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- OSHA requires that an instructor be accessible to answer questions during the training. This is the responsibility of the employer; EPA will not provide that service to non-EPA employees.



## H&SEHT Hazard Communication Standard

ERTPVU: [https://ertpvu.org/online\\_courses/OnlineCourseDetail.aspx?id=58](https://ertpvu.org/online_courses/OnlineCourseDetail.aspx?id=58)

Delivery: Online

This Health and Safety Eight-Hour Training module is a makeup module for U.S. EPA employees who have missed this lecture module during their required OSHA HAZWOPER refresher training. EPA employees are allowed to only make up a maximum of two modules.

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- These are makeup modules and are not intended to be the full 8-hour refresher training for employees. Other employers should consider the following OSHA statement.
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- OSHA requires that an instructor be accessible to answer questions during the training. This is the responsibility of the employer; EPA will not provide that service to non-EPA employees.



## H&SEHT Hazard Recognition

ERTPVU: [https://ertpvu.org/online\\_courses/OnlineCourseDetail.aspx?id=77](https://ertpvu.org/online_courses/OnlineCourseDetail.aspx?id=77)

Delivery: Online

This Health and Safety Eight-Hour Training module is a makeup module for U.S. EPA employees who have missed this lecture module during their required OSHA HAZWOPER refresher training. EPA employees are allowed to only make up a maximum of two modules.

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- These are makeup modules and are not intended to be the full 8-hour refresher training for employees. Other employers should consider the following OSHA statement.
- Computer-based training may meet some refresher training requirements, if it covers topics relevant to workers' assigned duties. It must be supplemented by the opportunity to ask questions of a qualified trainer and by an assessment of hands-on performance of work tasks.
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- OSHA requires that an instructor be accessible to answer questions during the training. This is the responsibility of the employer; EPA will not provide that service to non-EPA employees.



## H&SEHT Health and Safety Plans (HASP)

ERTPVU: [https://ertpvu.org/online\\_courses/OnlineCourseDetail.aspx?id=8](https://ertpvu.org/online_courses/OnlineCourseDetail.aspx?id=8)

Delivery: Online

This Health and Safety Eight-Hour Training Health and Safety Plans (HASP) is a makeup module for U.S. EPA employees who have missed this lecture module during their required OSHA HAZWOPER refresher training. EPA employees are allowed to only make up a maximum of two modules.

While this module is accessible to non-EPA employees, please note the following:

- These are makeup modules and are not intended to be the full 8-hour refresher training for employees. Other employers should consider the following OSHA statement.
- Computer-based training may meet some refresher training requirements, if it covers topics relevant to workers' assigned duties. It must be supplemented by the opportunity to ask questions of a qualified trainer and by an assessment of hands-on performance of work tasks.
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## H&SEHT Incident Command System Overview

ERTPVU: [https://ertpvu.org/online\\_courses/OnlineCourseDetail.aspx?id=21](https://ertpvu.org/online_courses/OnlineCourseDetail.aspx?id=21)

Delivery: Online

This Health and Safety Eight-Hour Incident Command System Overview is a makeup module for the U. S. EPA employees who have missed this lecture module during their required refresher training. EPA employees are allowed to only make up a maximum of two modules.

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## H&SEHT Levels of Protection

ERTPVU: [https://www.ertpvu.org/online\\_courses/OnlineCourseDetail.aspx?id=76](https://www.ertpvu.org/online_courses/OnlineCourseDetail.aspx?id=76)

Delivery: Online

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## H&SEHT Radiation Exposure Hazards and Monitoring

ERTPVU: [https://www.ertpvu.org/online\\_courses/OnlineCourseDetail.aspx?id=18](https://www.ertpvu.org/online_courses/OnlineCourseDetail.aspx?id=18)

Delivery: Online

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## H&SEHT Reference Materials and Resources

ERTPVU: [https://www.ertpvu.org/online\\_courses/OnlineCourseDetail.aspx?id=62](https://www.ertpvu.org/online_courses/OnlineCourseDetail.aspx?id=62)

Delivery: Online

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## H&SEHT Respirator Selection and Use

ERTPVU: [https://www.ertpvu.org/online\\_courses/OnlineCourseDetail.aspx?id=61](https://www.ertpvu.org/online_courses/OnlineCourseDetail.aspx?id=61)

Delivery: Online

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## H&SEHT Respiratory Protection

ERTPVU: [https://www.ertpvu.org/online\\_courses/OnlineCourseDetail.aspx?id=6](https://www.ertpvu.org/online_courses/OnlineCourseDetail.aspx?id=6)

Delivery: Online

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## H&SEHT Site Entry and Reconnaissance

ERTPVU: [https://www.ertpvu.org/online\\_courses/OnlineCourseDetail.aspx?id=63](https://www.ertpvu.org/online_courses/OnlineCourseDetail.aspx?id=63)

Delivery: Online

This Health and Safety Eight-Hour Training module is a makeup module for U.S. EPA employees who have missed this lecture module during their required OSHA HAZWOPER refresher training. EPA employees are allowed to only make up a maximum of two modules.

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## H&SEHT Toxicology

ERTPVU: [https://www.ertpvu.org/online\\_courses/OnlineCourseDetail.aspx?id=12](https://www.ertpvu.org/online_courses/OnlineCourseDetail.aspx?id=12)

Delivery: Online

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# ICS — General Staff

## Burn Rates — An ICS FSC Workgroup Presentation

ERTPVU: [https://www.ertpvu.org/online\\_courses/OnlineCourseDetail.aspx?id=53](https://www.ertpvu.org/online_courses/OnlineCourseDetail.aspx?id=53)

Delivery: Online

Welcome to Burn Rate training, an on-line presentation by U.S. EPA Incident Command System (ICS) Finance Section Chief (FSC) Workgroup. This course was adapted from a Webinar presentation and provides an introduction and overview of the calculation, presentation, and use of Burn Rates in an incident response context.

Experienced Finance Section Chiefs provide introductory Burn Rate calculation instruction and advice.

Burn Rate Workbook - [Click here](#) for a copy of the Spending Burn Rate Excel Workbook. It is recommended that students wishing to obtain more than an overview should download the workbook for use while viewing the course material



# RCRA

## RCRA Underground Storage Tank 101

ERTPVU: [https://www.ertpvu.org/online\\_courses/OnlineCourseDetail.aspx?id=32](https://www.ertpvu.org/online_courses/OnlineCourseDetail.aspx?id=32)

Delivery: Online

UST 101 is a short introductory course briefly summarizing the development, regulations, compliance, and remediation aspects of the Resource Conservation & Recovery Act (RCRA) Underground Storage Tank (UST) Program. It is usually intended for EPA personnel. The time to view this Course is approximately 2 hours.

To take this Power Point course you will need to download (Save) two large files and then access the course from your pc. The PowerPoint presentation file is 85 MB, and the video file is 143 MB.



# Remediation

## Electroplating Processes and Cleanups

ERTPVU: [https://www.ertpvu.org/online\\_courses/OnlineCourseDetail.aspx?id=26](https://www.ertpvu.org/online_courses/OnlineCourseDetail.aspx?id=26)

Delivery: Online

This 1.5-hour course presents an operational approach for responding to contamination at electroplating facilities, including general information about the electroplating process and remediation of hazardous wastes. An interim revision is now available. This interim version provides a new design and course structure to address functional deficiencies. EPA is currently reviewing the course to make additional updates to technical content.

This course is sponsored by CEC and hosted by Tetra Tech.



# Superfund

## Basic Overview of Superfund Online

Delivery: Online

The Basic Overview of Superfund course provides an overview of the purpose, legal framework, and implementation of CERCLA and explores the activities performed under the Superfund program. This course is divided into seven modules that must be completed in order. You will receive credit for completing each individual module, but the course certificate will not be provided until you complete all seven modules.

Modules:

1. Introduction and Overview of CERCLA (approximately 20 mins)
2. Statutory and Regulatory Framework (approximately 40 mins)
3. Overview of the Superfund Process (approximately 65 mins)
4. Liability and Enforcement (approximately 20 mins)
5. Community Involvement (approximately 20 mins)
6. Federal Facilities (approximately 15 mins)
7. Course complete: Launch to complete the course

You may print a Completion Certificate by selecting on the left: Administration, then Student Records, then Student Transcript.

This course does not meet requirements of EPA Order 3500.1 for the 3-day classroom course Fundamentals of Superfund.

Training Materials in this course:

Basics of Superfund 1 - Introduction and Overview of CERCLA

Required Plug-ins: None

Notice to Users About Resuming Online Courses

Each online course includes an option to resume where you left off if you exit before completing the course. Some users have reported cases where the resume feature is unavailable, and the course loads from the beginning. This issue may be caused by several scenarios, such as a user's organization implementing a policy to remove tracking cookies, an out-of-date browser, or individual settings within a user's browser. If you experience issues with the resume feature, please contact us to report your incident.



## **Basics of Superfund 1 — Introduction and Overview of CERCLA**

ERTPVU: [https://www.ertpvu.org/online\\_courses/OnlineCourseDetail.aspx?id=91](https://www.ertpvu.org/online_courses/OnlineCourseDetail.aspx?id=91)

## **Basics of Superfund 2 — Statutory and Regulatory Framework**

ERTPVU: [https://www.ertpvu.org/online\\_courses/OnlineCourseDetail.aspx?id=92](https://www.ertpvu.org/online_courses/OnlineCourseDetail.aspx?id=92)

## **Basics of Superfund 3 — Overview of the Superfund Process**

ERTPVU: [https://www.ertpvu.org/online\\_courses/OnlineCourseDetail.aspx?id=93](https://www.ertpvu.org/online_courses/OnlineCourseDetail.aspx?id=93)

## **Basics of Superfund 4 — Liability and Enforcement**

ERTPVU: [https://www.ertpvu.org/online\\_courses/OnlineCourseDetail.aspx?id=94](https://www.ertpvu.org/online_courses/OnlineCourseDetail.aspx?id=94)

## **Basics of Superfund 5 — Community Involvement**

ERTPVU: [https://www.ertpvu.org/online\\_courses/OnlineCourseDetail.aspx?id=95](https://www.ertpvu.org/online_courses/OnlineCourseDetail.aspx?id=95)

## **Basics of Superfund 6 — Federal Facilities**

ERTPVU: [https://www.ertpvu.org/online\\_courses/OnlineCourseDetail.aspx?id=96](https://www.ertpvu.org/online_courses/OnlineCourseDetail.aspx?id=96)

## **Basics of Superfund 7 — Course Complete**

ERTPVU: [https://www.ertpvu.org/online\\_courses/OnlineCourseDetail.aspx?id=97](https://www.ertpvu.org/online_courses/OnlineCourseDetail.aspx?id=97)



## **Superfund Enforcement — Module 1: Overview**

ERTPVU: [https://www.ertpvu.org/online\\_courses/OnlineCourseDetail.aspx?id=72](https://www.ertpvu.org/online_courses/OnlineCourseDetail.aspx?id=72)

Delivery: Online

Module 1 of 8 provides a brief overview of the Superfund program with an emphasis on EPA's underlying authority to compel responsible parties to clean up the release (or threatened release) of hazardous substances from abandoned or uncontrolled hazardous waste sites.

## **Superfund Enforcement — Module 2: The Cleanup Process**

ERTPVU: [https://www.ertpvu.org/online\\_courses/OnlineCourseDetail.aspx?id=65](https://www.ertpvu.org/online_courses/OnlineCourseDetail.aspx?id=65)

Delivery: Online

Module 2 of 8 to address steps in the Superfund site cleanup process.

## **Superfund Enforcement — Module 3: Liability**

ERTPVU: [https://www.ertpvu.org/online\\_courses/OnlineCourseDetail.aspx?id=66](https://www.ertpvu.org/online_courses/OnlineCourseDetail.aspx?id=66)

Delivery: Online

Module 3 of 8 describes the classes of liable parties under Superfund and introduces statutory defenses, exemptions, and protections for certain parties that may otherwise be liable under Superfund.



## **Superfund Enforcement — Module 4: The Enforcement Process**

ERTPVU: [https://www.ertpvu.org/online\\_courses/OnlineCourseDetail.aspx?id=67](https://www.ertpvu.org/online_courses/OnlineCourseDetail.aspx?id=67)

Delivery: Online

Module 4 of 8 addresses steps in the Superfund enforcement process. These include identifying and then notifying parties who are potentially responsible for site cleanup, negotiating cleanup agreements with the responsible parties, and then overseeing the cleanup work.

## **Superfund Enforcement — Module 5: Administrative Settlement Agreements and Orders on Consent (ASAOCs) and Consent Decrees**

ERTPVU: [https://www.ertpvu.org/online\\_courses/OnlineCourseDetail.aspx?id=68](https://www.ertpvu.org/online_courses/OnlineCourseDetail.aspx?id=68)

Delivery: Online

Module 5 of 8 describes how EPA negotiates cleanup agreements with potentially responsible parties (PRPs) in the form of administrative orders on consent, administrative agreements, or judicial consent decrees.

## **Superfund Enforcement — Module 6: Settlement Incentives and Special Settlements**

ERTPVU: [https://www.ertpvu.org/online\\_courses/OnlineCourseDetail.aspx?id=69](https://www.ertpvu.org/online_courses/OnlineCourseDetail.aspx?id=69)

Delivery: Online

Module 6 of 8 addresses a number of “tools” that are available to EPA in negotiating settlement agreements with potentially responsible parties (PRPs) for the cleanup of a Superfund site.



## **Superfund Enforcement — Module 7: Cost Recovery**

ERTPVU: [https://www.ertpvu.org/online\\_courses/OnlineCourseDetail.aspx?id=70](https://www.ertpvu.org/online_courses/OnlineCourseDetail.aspx?id=70)

Delivery: Online

Module 7 of 8 describes the process to recover expenses from cleanup activities conducted at a Superfund site.

## **Superfund Enforcement — Module 8: Cross-Cutting Issues**

ERTPVU: [https://www.ertpvu.org/online\\_courses/OnlineCourseDetail.aspx?id=71](https://www.ertpvu.org/online_courses/OnlineCourseDetail.aspx?id=71)

Delivery: Online

Module 8 of 8 addresses a number of issues that can arise under various aspects of Superfund enforcement.



# ERTP Course Details

## ERTP Course Registrations and Costs

- All course ERTTP hosted/sponsored registrations occur at <https://www.trainex.org/> .
- To register for ERTTP training courses, participants must create and maintain Student Profiles at the <https://www.trainex.org/> website.
- Some courses may be initially unavailable (upon request) for public/Non-EPA Staff registration and are therefore hidden from public view in the current ERTTP course schedules at: <https://www.trainex.org/>. This means a course registration link may be provided before course registration may occur for certain courses and/or ERTTP staff may request email addresses in advance for manually pre-registering projected or targeted participants in advance and prior to making the course open for public view (or unhidden). For example, certain National Courses may allocate only 2 slots per region, therefore the course registration will be limited/hidden until each region confirms their 2 slots.
- Class sizes are limited; early registrations are needed.
- Course deadlines are generally set no later than three (3) weeks prior to each course offering.
- Continuing Learning Points (CLP's) and Continuing Education Units (CEU's) are provided for the majority of ERTTP's training courses. Training Course Completion Certificates contain CLP or CEU details.
- There is no cost for ERTTP course offerings for Federal and State Agency personnel, but EPA and state employees have priority.
- Courses are not open to consultants, contractors, or any private entities.
- Other courses and/or course customizations may be developed upon request.

## ERTP Course Questions

Contact the U.S. Environmental Protection Agency, Office of Land and Emergency Managements' (OLEM) Environmental Response Training Program Contract Officer Representatives (ERTTP CORs) below for questions, or clarification:

Shelly Norland  
Environmental Response Training Program (ERTTP)  
U.S. Environmental Protection Agency/OLEM/OSRTI  
Office: (702) 784-8004  
E-mail: [norland.shelly@epa.gov](mailto:norland.shelly@epa.gov)

## Other Courses May Be Developed Upon Request

For questions related to developing courses and/or customizing courses, contact the ERTTP staff identified above.