



Environmental and Munitions Center of Expertise

Available Training

EM CX Training Coordinator 402-697-2558

U.S. ARMY CORPS OF ENGINEERS

BUILDING STRONG®

The U.S. Army Engineering and Support Center, Huntsville's Environmental and Munitions Center of Expertise (EM CX) offers many different environmental training opportunities within the Proponent Sponsored Engineer Corps Training (PROSPECT) program, including other non-PROSPECT courses and workshops. These training courses are open to all federal agencies, and most of them are open to contractors as well.

Environmental-Related PROSPECT Courses

The complete list of PROSPECT courses can be found at <http://ulc.usace.army.mil>. You may also register and pay for a PROSPECT course at the above website.

Environmental Regulations Practical Application Course (Course Control Number (CCN) 398) - This is for personnel involved in regulatory compliance issues. Topics covered in this 36-hour course include RCRA waste classification and disposal, CAA, CWA storm and wastewater discharges, TSCA requirements for management and disposal of PCBs, lead-based paint issues, asbestos, USTs, pesticide management, EPCRA, spill response, solid waste management, pollution prevention and drinking water standards.

The CERCLA/RCRA Remediation Process (CCN 356) - This 24-hour course trains personnel involved with the cleanup of hazardous and toxic waste on military and civil works projects in the proper application of CERCLA, RCRA and other relevant environmental laws, regulations and policies. This course is ISEERB approved.

Hazardous Waste Manifesting & DOT Certification Course (CCN 223) - This 36-hour course enables personnel to understand the regulatory requirements of RCRA and the Hazardous Materials Transportation Act (HMTA) as it applies to the generation, transportation and disposal of hazardous waste. Topics include RCRA waste classification, land disposal restrictions, generator requirements, manifesting requirements, and Department of Transportation (DOT) requirements such as proper shipping names, packaging, labeling, marking and placarding. This ISEERB-approved course provides documentation necessary for an employee to become certified as per 49 CFR subpart H and DoD 4500.9-R, chapter 204.

Hazardous Waste Manifesting 16-Hour DOT Recertification Course (CCN 429) - The 16-hour manifesting refresher course provides refresher training on DOT requirements to fulfill the recurrent training requirements of 49 CFR 172, Subpart H for general awareness/familiarization training. This ISEERB-approved course provides documentation necessary for an employee to be recertified as per 49 CFR Subpart H and DOD 4500.9-R, Chapter 204.

Radioactive Waste 20-Hour DOT Recertification Course (CCN 430) - The 20-hour recertification course provides refresher training on DOT requirements pertaining to radioactive wastes/materials to fulfill the recurrent training requirements of 49 CFR 172, Subpart H for general awareness/familiarization training. This ISEERB-approved course provides documentation necessary for employee recertification as per 49 CFR Subpart H and DOD 4500.9-R, Chapter 204.

Radioactive Waste Initial Transportation Course (CCN 441) - This 24-hour workshop instructs the student on DOT requirements pertaining specifically to radioactive wastes, particularly, remediation wastes from radioactive sites such as FUSRAP sites, EPA Superfund sites and military installations. This workshop is focused on the DOT regulations associated with Class 7 and Class 9 radionuclides which include ongoing DOT/NRC rulemaking for harmonization with international transportation regulations. Course contents include, but are not limited to, determining if the material meets a Class 7 or Class 9 hazard class, DOT subtyping (Excepted, Type A, Type B, HRCQ, LSA, SCO, etc.), determining the proper shipping names, markings, labeling and packaging, determining the correct shipping paper requirements and security awareness training. There is minor discussion on the Nuclear Regulatory Commission (NRC) regulations as they relate to transportation.

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Environmental Remediation Technologies Course (CCN 395) - This 36-hour course provides the student with an overview of various in-situ remediation and containment technologies. The course emphasizes the awareness and use of available guidance from the USACE, EPA, Air Force, ASTM and other sources.

The RCRA Complete (CCN 226) - This 24-hour course focuses on federal RCRA hazardous waste requirements as found in Title 40 of the Code of Federal Regulations. Topics covered include identifying solid and hazardous wastes, determining applicable generator category, generator standards including conditions for exemptions from permit requirements, land disposal restriction treatment standards, use of the hazardous waste manifest, and land disposal restrictions treatment standards. Additional topics include standards applicable to the facilities that receive hazardous waste for treatment, storage or disposal; special regulations for managing recyclable waste; used oil; waste military munitions; universal waste; underground storage tanks; permit options; and the process for conducting corrective action. Phases of corrective action covered include identification of solid waste management units and areas of concern, RCRA facility assessments, interim stabilization measures, the RCRA facility investigations, corrective measures studies and corrective measures implementation. Special waste management options for remediation waste, such as corrective action management units, staging piles and temporary units are also addressed.

Environmental Laws & Regulations Course (CCN170) - This is a general course designed for non-attorneys or for attorneys with limited background in environmental law. Topics include federal laws and regulations for environmental protection; pollution standards and variances; congressional and judicial developments; economic and technical difficulties in meeting standards; and the relation of the Corps of Engineers to state and federal agencies in meeting standards and enforcing laws.

Other Available Environmental Training Courses

The EM CX teaches a variety of other courses and workshops in the environmental and munitions field.

OSHA Refresher Training - The eight-hour refresher course fulfills the requirements of OSHA 29 CFR 1910.120 for refresher training for workers at hazardous waste sites. This course is designed for workers who are onsite and may be exposed to hazardous substances or health hazards.

Military Munitions Response Program Course (MMRP) 101 - This 24-hour course discusses the basic procedural and technical requirements used to investigate, characterize and remediate munitions and explosives of concern within the framework of the CERCLA process. Topics include regulatory considerations; basic geophysics tools and processes; munitions constituents sampling, ordnance descriptions, uses and functioning; remedial investigation and feasibility study execution; munitions response site prioritization protocol (MRSP); basic safety considerations and personnel qualifications; handling of munitions potentially presenting an explosive hazard; construction support considerations; and public involvement requirements and strategies.

Military Munitions Response Program Course (MMRP) 201 - This 24-hour course discusses the advanced procedural and technical requirements used to investigate, characterize and remediate munitions and explosives of concern within the framework of the CERCLA process. It utilizes instructor led practical exercises, case studies and lessons learned to equip students with the knowledge to develop and critically review project documents from planning documents (UFP-QAPP Worksheets) through Decision Documents. The course also provides more in-depth instruction on the application of statistical and geophysical tools, including Munitions Advanced Classification.

EPCRA Standardization-Garrison Reporting Course - This 24-hour course provides instruction on the annual reporting requirements of the Emergency Planning and Community Right-to-Know Act (EPCRA). This course includes discussion on EPCRA Sections 302/303, 304, 311/312 and 313 as well as several sections of the law establishing different reporting threshold calculations and annual reporting requirements.

In addition, the following FUDS training courses are available and can be tailored to meet other agency needs as requested:

- **Course 101, FUDS Program & Policy, 24 hours, Onsite**
- **Course 102, Effective Communication for the FUDS Program, 24 hours, Onsite**

- Course 103, Five Year Review - Execution, 16 hours, Onsite
- Course 104, RACER & FUDS EL/CTC Process, 24 hours, Onsite
- Course 108 FUDS Boot Camp, 20 hours, Onsite
- Course 110, FUDS Program/Project Execution 101, 24 hours, Onsite
- Course 203, Munitions Constituents (MC) Planning to Reporting - Execution, 24 hours, Onsite
- Course 204, Explosive Safety for OE Safety Specialists, 16 hours, Onsite
- Course 208, The Advanced Classification Business Model, 24 hours, Onsite
- Course 209, FUDS MMRP - Getting to the Remedy, 24 hours, Onsite
- Course 303, Administrative Record, 2 hours, Net Training
- Course 304, Decision Documents, 2 hours, Net Training
- Course 305, FUDSMIS: A Programmatic Perspective, 2 hours, Net Training
- Course 306, FUDSMIS and P2, 2 hours, Net Training
- Course 307, Relative Risk Site Evaluation, 2 hours, Net Training
- Course 308, FUDS Records Management Database, 1 hour, Net Training
- Course 309, FUDS Record Management Database Categories, 2 hours, Net Training
- Course 310, Common Operations Reports, 1 hour, Net Training
- Course 311, Historical Photographic Analysis, 1 hour, Net Training
- Course 313, ROE Requirements and Procedures, 2 hours, Net Training
- Course 314, Remedy Selection for Restricted Land Use with Possible LUCs, 2 hours, Net Training
- Course 315, Finding ARARs, 2 hours, Net Training
- Course 316, CERCLA Human Health Risk Assessment, 2 hours, Net Training
- Course 317, CERCLA Ecological Risk Assessment, 2 hours, Net Training
- Course 318, The Data Quality Objectives (DQO) Process, 3.5 hours, Net Training
- Course 319, Innovative Technologies Application, 3 hours, Net Training
- Course 320, Emerging Contaminants in FUDS, 2 hours, Net Training
- Course 323, Project-Specific Chemical Data Quality Management, 3 hours, Net Training
- Course 324, FUDS Project Identification, 2 hours, Net Training
- Course 325, Technical Impracticability Waivers, 1 hour, Net Training
- Course 327, Restoration Advisory Board, 2 hours, Net Training
- Course 328, DSMOA for FUDS Project Managers, 2 hours, Net Training
- Course 329, Optimization Approaches for HTRW Projects at FUDS, 2 hours, Net Training
- Course 330, Environmental Liability (EL)/Cost to Complete (CTC) Training, 3 hours, Net Training
- Course 332, Vapor Intrusion, 2 hours, Net Training
- Course 333, Occupational Health and Safety Planning and Implementation Requirements for Cleanup Projects (HTRW and MMRP), 1 hour, Net Training
- Course 334, FUDS Forum Portal, 1 hour, Net Training
- Course 335, Value Engineering in FUDS Environmental Projects, 2 hours, Net Training
- Course 336 Cost to Compete Estimating Refresher, 3 hours, Net Training
- Course 337, Basic ARARs, 1 hour, Net Training
- Course 338, ARARs Refresher, 1 hour, Net Training
- Course 403, Geophysics Overview, 4 hours, Net Training
- Course 404, Explosive Safety for Project Teams, 2 hours, Net Training
- Course 406, MMRP Workplan Including UFP-QAPP, 2 hours, Net Training
- Course 409, FUDS Public Participation Requirements, 2 hours, Net Training
- Course 410, MRSP Process Overview Including Delineation, 3 hours, Net Training
- Course 411, FUDS Technical Project Planning, 2 hours, Net Training
- Course 414, Introduction to Munitions Constituents, 3 hours, Net Training
- Course 415, Green and Sustainable Remediation (GSR) Introduction to Consideration and Incorporation of GSR into USACE Environmental Remediation, 2 hours, Net Training
- Course 418, Munitions Classification for Project Managers, 2 hours, Net Training
- Course 419, Interim Risk Management at FUDS, 2 hours, Net Training
- Course 421, RCRA Subpart X Relevance to MMRP Projects, 2 hours, Net Training
- Course 423, FUDSCHEM for PMs, 2 hours, Net Training
- Course 424, FUDSCHEM for Chemists, 2 hours, Net Training
- Course 425, Advanced Munitions Constituents Update, 3 hours, Net Training
- Course 426, EMCX Independent Technical Review (ITR) – Process Overview, 2 hours, Net Training
- Course 427, A Critical Look at Proposed Plans, two 4-hour sessions, Net Training
- Course 428, RAO Speedwagon, 2 hours, Net Training
- Course 429, Hard Water – Managing Complex Groundwater Sites, 2 hours, Net Training