



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 and outside of the Proponent Sponsored Engineer Corps Training, PROSPECT, program.

Environmental-Related PROSPECT Courses

The following summarizes environmental courses regularly instructed by the EM CX in support of PROSPECT. For a complete list of PROSPECT courses, see <https://ulc.usace.army.mil>.

Course Control Number 170 – The Environmental Laws & Regulations Course - This is a general survey course designed for non-attorneys or for attorneys with limited background in environmental law. Topics include federal laws and regulations such as the Rivers and Harbors Act of 1899; the National Environmental Policy Act, NEPA; the Clean Water Act; the Clean Air Act; the Resource Conservation and Recovery Act, RCRA; the Toxic Substances Control Act; the Endangered Species Act; the Fish and Wildlife Coordination Act; the National Historic Preservation Act; the Coastal Zone Management Act; the Clean Water Act; the Ocean Dumping Act; the Comprehensive Environmental Response, Compensation, and Liability Act; other Cultural Resource laws; other Natural Resource laws; and other Planning laws. Discussion covers state environmental laws and regulations and how they interact with federal agencies. This is an Inter-Service Environmental Education Review Board, ISEERB, approved course that has been evaluated for use by all DOW services.

Course Control Number 223 - Hazardous Waste Manifesting/Department of Transportation Certification Course – This course provides initial training regarding regulatory requirements of the 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 and notifications; generator requirements; manifesting requirements; identification of a DOT reportable quantity; use of the Hazardous Materials Table; DOT requirements for determining a shipping name; proper packaging, labeling, marking and placarding; DOT emergency response requirements; and general security awareness training. This training assists employers in their evaluation as to whether employees should be certified to sign hazardous waste manifests per 49 CFR 172 Subpart H and DOW 4500.9-R. This is an ISEERB-approved course that has been evaluated for use by all DOW services.

Course Control Number 226 – The Complete RCRA Course – This course covers the full life cycle of RCRA including hazardous waste, used oil, and universal waste management; land disposal restrictions; underground storage tank regulations; and RCRA corrective action for responding to releases of hazardous waste.

Course Control Number 356 - The CERCLA/RCRA Process Workshop - This course trains personnel on the CERCLA hazardous-substance response process and the RCRA corrective-action process as they relate to the DOW. It focuses on the regulatory requirements for cleaning up hazardous substances, pollutants and contaminants under CERCLA and solid and/or hazardous wastes at RCRA sites. Specifically, this course covers the CERCLA process as outlined by Subpart E of the National Contingency Plan and the RCRA corrective action process as implemented via EPA guidance, RCRA permit requirements and consent orders.

Course Control Number 398 - Environmental Regulations Practical Applications Course – This course addresses compliance with major federal environmental laws such as RCRA; the Safe Drinking Water Act; the Clean Water Act; the Clean Air Act; the Toxic Substances Control Act; Federal Insecticide, Fungicide, and Rodenticide Act; and the Emergency Planning, and Community Right-to-Know Act. The course focuses on the practical application of these regulations during day-to-day compliance activities at DOW installations, USACE construction projects and Civil Works projects.

Course Control Number 429 - DOT Recertification Course – The course provides recurrent, refresher training needed under DOW 4500.9 R, Chapter 204 for persons signing hazardous waste manifests. It also addresses requirements of 49 CFR 172 Subpart H, general awareness training regarding hazardous materials. The course reviews the regulatory requirements of the Hazardous Materials Transportation Act and the Resource Conservation and Recovery Act as it applies to the generation, transportation and disposal of hazardous waste. This is an ISEERB-approved course.

Course Control Number 430 - Radioactive Waste Transport/DOT Recertification Course – The course provides recurrent, refresher training regarding the regulatory requirements of the HMTA and RCRA as it applies to the generation, transportation and disposal of hazardous waste and Class 7 and 9 radionuclides. This training assists employers in their evaluation as to whether employees should be certified to sign radioactive waste manifests per 49 CFR 172 Subpart H and DOW 4500.9 R.

Other Available Environmental Training Courses

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

Military Munitions Response Program Course 101 - This 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 201 - This 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.

Initial Radioactive Waste Transport DOT Certification Course 441 - This course provides initial training regarding the regulatory requirements of the Hazardous Materials Transportation Act as it applies to the off-site transportation of Class 7 and Class 9 Radioactive Wastes for recycling, treatment and/or disposal.

EPCRA Analysis and Reporting Course - This course provides instruction on the annual reporting requirements of the Emergency Planning and Community Right-to-Know Act. 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, 20 hours, Onsite**
- **Course 104, FUDS CTC Environmental Liability Estimating, 16 hours, Onsite**
- **Course 109, FUDS Legal Bootcamp, for Division/District OCs, 24 hours, Onsite**
- **Course 110, FUDS Program/Project Execution, 24 hours, Onsite**
- **Course 112, Data Usability Assessments, 24/20 hours, Onsite/Virtual**
- **Course 203, Munitions Constituents (MC) Planning to Reporting - Execution, 16 hours, Onsite/Virtual**
- **Course 204, Explosive Safety for OE Safety Specialists, 16 hours, Onsite**
- **Course 208, FUDS MMRP - Remedial Action & Achieving the Goals of the DD, 4 hours, Virtual**
- **Course 209, FUDS MMRP - Getting to the Remedy, 4 hours, Virtual**
- **Course 210, FUDS MMRP - Phased RI Approach using the MR -QAPP Toolkit, 4 hours, Virtual**

- Course 213, Military Munitions Response Program EM 200-1-15, 32 hours, Onsite
- Course 303, Administrative Record, 2 hours, Virtual
- Course 304, Proposed Plans, 1.5 hours, Virtual
- Course 305, FUDSMIS: A Programmatic Perspective, 2 hours, Video
- Course 306, FUDSMIS and P2, 2 hours, Video
- Course 307, Relative Risk Site Evaluation, 2 hours, Virtual
- Course 308, FUDS Document Repository (FUDS Docs), 2 hours, Virtual
- Course 309, FUDS Document Categories, 1 hour, Virtual
- Course 311, Historical Photographic Analysis, 1 hour, Virtual
- Course 313, FUDS ROE Requirements and Procedures, 2 hours, Virtual
- Course 314, Remedy Selection for Restricted Land Use with Possible LUCs, 2 hours, Virtual
- Course 315, Finding ARARs, 2 hours, Virtual
- Course 316, CERCLA Human Health Risk Assessment, 2 hours, Virtual
- Course 317, CERCLA Ecological Risk Assessment, 2 hours, Virtual
- Course 318, The Data Quality Objectives (DQO) Process for Chemical Contaminants, 3.5 hours, Virtual
- Course 320, Chemicals of Emerging Concern for FUDS, 2 hours, Virtual
- Course 323, Project-Specific Chemical Data Quality Management, 3 hours, Virtual
- Course 324, FUDS Project Identification, 2.5 hours, Virtual
- Course 327, Restoration Advisory Board, 1 hour, Virtual
- Course 329, Optimization Approaches for HTRW Projects at FUDS, 2.25 hours, Virtual
- Course 330, FUDS CTC Supervisory Review, 2 hours, Virtual
- Course 332, Vapor Intrusion, 2 hours, Virtual
- Course 334, FUDS Forum Portal, 1 hour, Virtual
- Course 335, Value Engineering in FUDS Environmental Projects, 2 hours, Virtual
- Course 336 FUDS CTC Environmental Liability Estimating Refresher, 3 hours, Virtual
- Course 337, Basic ARARs, 1 hour, Virtual
- Course 338, ARARs Refresher, 2 hours, Virtual
- Course 339, FUDS Official Workplan, 2 hours, Video
- Course 340, FUDS Program Metrics, 2 hours, Video
- Course 341, FUDSMIS: CTC, LCP, & AWP Explained, 2 hours, Video
- Course 342, Five-Year Review Overview, 3 hours, Virtual
- Course 343, Monitored Natural Attenuation and Engineered Bioremediation, 2.5 hours, Virtual
- Course 344, In-Situ Chemical Oxidation and In-Situ Thermal Remediation, 2.5 hours, Virtual
- Course 347, Soil Vapor Extraction and Air Sparging, 2.5 hours, Virtual
- Course 348, Landfill Gas Collection and Vapor Treatment, 2 hours, Virtual
- Course 349, UFP-QAPP Overview, 2 hours, Virtual
- Course 350, FUDS Orientation for New Team Members, 1.5 hours, Virtual
- Course 352, FUDS GIS Overview, 1.5 hours, Virtual
- Course 353, Excavation, Low-Temperature Thermal Desorption, and Above-Ground Land Treatment Technologies, 2.5 hours, Virtual
- Course 354, Landfill Design, 2.5 hours, Virtual
- Course 355, Vertical Barrier Walls and Permeable Reactive Barriers, 2.5 hours, Virtual
- Course 356, Digging into the Nine Criteria, 2 hours, Virtual
- Course 357 Cultural Resources, 2.5 hours, Virtual
- Course 358, Endangered Species Act, 2 hours, Virtual
- Course 359, Decision Documents, 2 hours, Virtual
- Course 360, Workplan Build Strategies and Descriptions, 2 hours, Video
- Course 361, FUDS Baseline Metrics, 2 hours, Video
- Course 362, Overview of Geophysics for HTRW Projects, 5 hours, Virtual
- Course 363, Land Use Controls Implementation Plans, 2 hours, Virtual
- Course 364, Reviewing Findings and Determinations of Eligibility (FDE), 1.5 hours, Virtual
- Course 365, Preliminary Assessments, 2 hours, Virtual
- Course 403, MMRP Geophysics Overview, 2 hours, Virtual
- Course 404, Explosive Safety for Project Teams, 2.5 hours, Virtual
- Course 406, MR-QAPP Overview, 3 hours, Virtual

- Course 409, FUDS Public Participation Requirements, 2 hours, Virtual
- Course 410, MRSP Process Overview Including Delineation, 8 hours, Virtual
- Course 414, Introduction to Munitions Constituents, 4 hours, Virtual
- Course 417, Building a Well-Supported CSM, 2 hours, Virtual
- Course 418, MMRP Design: Updates, Best Practices, and Lessons Learned, 2 hours, Virtual
- Course 419, Interim Risk Management at FUDS, 1.5 hours, Virtual
- Course 421, RCRA Subpart X Relevance to MMRP Projects, 2 hours, Virtual
- Course 423, FUDSChem for PMs and Non-Chemists, 2 hours, Virtual
- Course 424, FUDSChem for Chemists, 4 hours, Virtual
- Course 425, Advanced Munitions Constituents Update, 3 hours, Virtual
- Course 426, EMCX Independent Technical Review (ITR) – Process Overview, 2 hours, Virtual
- Course 427, A Critical Look at MMRP Proposed Plans, 2 hours, Virtual
- Course 428, MMRP Risk Management Methodology (RMM), 4 hours, Virtual
- Course 429, Management of Complex Groundwater Remediation Sites, 3 hours, Virtual
- Course 431, Special Considerations for FUDS-MMRP Contracting, 8 hours, Virtual
- Course 433, Introduction to Munitions Response, 4 hours, Virtual
- Course 434, Incorporating the 3Rs (Recognize, Retreat, and Report) Explosives Safety Education into your MMRP Project, 3 hours, Virtual
- Course 641, Monitoring Well Installation & Groundwater Sampling, 2 hours, Virtual
- Course 642, Soil & Soil Gas Sampling, 2 hours, Virtual