

Domestic *Preparedness*

preparedness

expert assistance

training

**COMPENDIUM OF WEAPONS OF
MASS DESTRUCTION COURSES**
Sponsored by the Federal Government

JULY 1998

response teams

PREFACE

This compendium of courses was compiled to inform state and local agencies of federal training that is available in the area of weapons of mass destruction. These courses are all available to state and local responders. This compendium will be updated as new courses become available. The document and its update will be available on the Domestic Preparedness web page (www.nbc-prepare.org) or may be requested via the DP Helpline (1-800-368-6498).



TABLE OF CONTENTS

	Page
1. Preface	i
2. BACKGROUND.....	1
A. Legislation.....	1
B. Development of a Training Package.....	1
C. Description of Domestic Preparedness Courses.....	3
3. FEDERALLY-SPONSORED NBC COURSES (Listed by title of course in alphabetical order)	6

APPENDICES

Appendix A (Performance Objectives Matrix).....	A-1
--	-----

Appendix B (List of NBC Courses)

Department of Defense (DOD)

Chemical/Biological Countermeasures Training (CBCT)	B-1
Field Management of Chemical and Biological Casualties.....	B-2
Medical Effects of Ionizing Radiation (MEIR)	B-3
Medical Management of Biological Casualties.....	B-4
Medical Management of Chemical and Biological Casualties	B-5
NBC Domestic Preparedness Training Basic Awareness (Employee).....	B-6
NBC Domestic Preparedness Training Incident Command.....	B-7
NBC Domestic Preparedness Training Responder – Awareness Courses	B-8
NBC Domestic Preparedness Training Responder – Operations Courses	B-9
NBC Domestic Preparedness Training Senior Officials Workshop	B-10
NBC Domestic Preparedness Training Technician –Emergency Medical Services	B-11
NBC Domestic Preparedness Training Technician Hazmat Courses.....	B-12
NBC Domestic Preparedness Training Technician – Hospital Provider	B-13
Nuclear Emergency Team (NET) Operations	B-14
Nuclear Hazards Training Course.....	B-15
Operational Radiation Safety.....	B-16
Radiological Accident Command Control and Coordination (RAC3)	B-17
Toxic Aid Automated Training.....	B-18
Toxic Chemical Training for Medical Support Personnel	B-19
Preparing for and Managing the Consequences of Terrorism	B-20

Department of Energy (DOE)

Air Sampling for Radioactive Materials	B-21
ALARA for Design and Operations Engineers - Instructor Manual.....	B-22
Applied Health Physics.....	B-23
Crisis Management Program for Senior Officials	B-24
Handling of Radiation Accidents by Emergency Personnel.....	B-26
Hazardous Materials Incident Response Operations (HAZWOPER)	B-27
Health Physics for the Industrial Hygienist.....	B-28
Health Physics in Radiation Accidents	B-29
Introduction to Radiation Safety.....	B-30
Medical Planning and Care in Radiation Accidents.....	B-31
Occupational Health in Nuclear Facilities.....	B-32
Radioactive Material Basics for Emergency Responders	B-33
Radiological Emergency Response	B-34
Transportation Public Information Training	B-35

Department of Health and Human Services (DHHS)

Air Sampling for Toxic Substances.....	B-37
Applied Radiation Protection.....	B-38
Certified Hazardous Materials Manager Review	B-39
Chemical Protective Clothing	B-40
Control of BioHazards in the Research Laboratory.....	B-41
Ecological Toxicology and Environmental Risk Assessment	B-43
Fit Testing Workshop.....	B-44
Hazardous Materials, OSHA 201A.....	B-45
Hazardous Substances Management and Response: Health & Safety Issues	B-46
Management and Disposal of Radioactive Waste	B-47
Managing Hazardous Materials Incidents	B-48
Nuclear Emergency Planning.....	B-49
Occupational Respiratory Protection	B-50
Overview of Respiratory Protection	B-51
Pesticides: Risk Evaluation & Site Mitigation	B-52
Pulmonary Function Training	B-53
Quantitative Fit Testing.....	B-54
Radiation Safety Officer Course	B-55
Radioactivity in the Environment: Risk, Assessment, and Measurement.....	B-57
Respiratory Protection and Respirator Fit Testing	B-58
Respiratory Protection Program	B-59

Sampling for Hazardous Materials	B-60
Sampling of Hazardous Materials	B-61
Federal Bureau of Investigation (FBI)	
Community Integration at a WMD Incident Site	B-62
Crime Scene Awareness at a WMD Incident Site.....	B-63
Federal Integration at a WMD Incident Site	B-64
Federal Emergency Management Agency (FEMA)	
Chemical Stockpile Emergency Preparedness Program (CSEPP)	
Agent Characteristics and Toxicology First Aid and Special Treatment (ACTFAST) and Use of Auto-Injectors	B-65
An Introduction to Protective Action Decision Making	B-66
Chemical Accident/Incident Response & Assistance	B-67
Chemical Hazard Prediction	B-68
Chemical Hazard Prediction for Decision Makers	B-69
Chemical Stockpile Agent Characteristics.....	B-70
CSEPP Chemical Awareness	B-71
Emergency Management Information System (EMIS)	B-72
Emergency Planner's Companion	B-73
How Do I Know?.....	B-74
Limited Exposure.....	B-75
Management of Chemical Warfare Injuries	B-76
Personal Protective Equipment.....	B-77
Response Phase Decontamination for CSEPP.....	B-78
Technical Planning and Evaluation	B-79
Use of Auto-Injectors by Civilian Emergency Medical Personnel to Treat Civilians Exposed to Nerve Agent.....	B-80
Emergency Management Institute (EMI)	
Advanced Radiation Incident Operations (ARIO).....	B-81
Consequences of Terrorism, Integrated Emergency Management Course	B-82
Emergency Response to Criminal/Terrorist Incidents.....	B-83
Exercise Design Course.....	B-84
Exercise Evaluation Course.....	B-85
Fundamentals Course for Radiological Response Teams.....	B-86
Fundamentals Course for Radiological Monitors	B-87
Incident Command System/Emergency Operations Center (ICS/EOC) Interface.....	B-88
Incident Command System for Law Enforcement Agencies	B-89
Incident Command System for Public Works.....	B-90

Mass Fatalities Incident Course	B-91
Radiological Emergency Response Operations (RERO).....	B-92

National Fire Academy (NFA)

Advanced Life Support Response to Hazardous Materials	
Incidents	B-93
Basic Life Support and Hazardous Materials Response.....	B-94
Chemistry of Hazardous Materials.....	B-95
Command and Control of Fire Department Operations at	
Target Hazards	B-96
Command and Control of Operations at Natural & Man-made	
Disasters	B-97
Emergency Response to Terrorism: Basic Concepts	B-98
Emergency Response to Terrorism: Incident Management.....	B-99
Emergency Response to Terrorism: Self-Study.....	B-100
Emergency Response to Terrorism: Tactical Considerations.....	B-101
Hazardous Materials Incident Management	B-102
Hazardous Materials Operating Site Practices.....	B-103
Incident Command System for Emergency Medical Services	B-104

Environmental Protection Agency (EPA)

Air Monitoring for Hazardous Materials (165.4)	B-105
Designs for Air Impact Assessments at Hazardous Waste Sites.....	B-106
Emergency Response to Hazardous Material Incidents	B-107
Hazardous Material Incident Response Operations (165.5).....	B-108
Health and Safety Plan Workshop (165.12)	B-109
Incident Command/Unified Command for On-Scene Coordinators	B-110
Radiation Safety at Superfund Sites.....	B-111

Department of Justice/Office of Justice Programs (DOJ/OJP)

Emergency Response to Terrorism: Basic Concepts	B-112
Emergency Response to Terrorism: Incident Management	B-113

Department of Transportation (DOT)

First Responder Training Workshop: Public Transportation	
Chemical, Biological and Nuclear Incidents	B-114

COMPENDIUM
of
WEAPONS OF MASS DESTRUCTION COURSES
Sponsored by the Federal Government

1. Background. Terrorist incidents involving weapons of mass destruction (WMD) pose a growing threat to the security of the United States. Effective response will depend on local and State response organizations' attainment of WMD-related expertise and proficiency. Emergency responders and managers must be able to recognize the unique characteristics of WMD in order to protect themselves and the public, mitigate the dangers, and facilitate the integration of federal, state and local support actions that are necessary to resolve the incident. The Federal Government makes training available to help ensure that local and State responders have the knowledge and skills necessary for WMD incidents.

A. Legislation. The most recent and comprehensive effort in this regard was mandated by Title XIV of Public Law 104-201, the National Defense Authorization Act for Fiscal Year 1997. This legislation, also known as Nunn-Lugar-Domenici, directed the Federal Government to improve the capabilities of state and local agencies to respond to incidents involving WMD. The Department of Defense (DOD) was directed to lead the Federal Government effort.

The US Army Chemical and Biological Defense Command (CBDCOM) was designated as the Program Director for Domestic Preparedness to coordinate, integrate, and execute a program to enhance domestic preparedness to nuclear, biological, and chemical (NBC) terrorism. The purpose of this program is to provide for training of state and local emergency responders in the event of a terrorist incident involving nuclear, biological or chemical (NBC) weapons of mass destruction. The training program is intended to "train the trainers" and be in the form of modules which can be tailored to meet the specific training needs of individual cities and readily integrated into the existing emergency responder training programs at the state and local level.

B. Development of a Training Package. CBDCOM, in coordination with other federal agencies and DOD organizations, developed a training program to address the training shortfalls. Four focus group seminars of emergency responders were held in February 1997 to identify the training performance objectives required by emergency responders to obtain proficiency in WMD issues. These focus groups identified 26 performance objectives which were then matrixed against five levels of competency:

Competency Levels

- Employee Awareness
- Responder Awareness
- Operations
- Technician/Specialist
- Incident Command

The Domestic Preparedness program is providing the train the trainer courses to only the top 120 cities by population. This program cannot address the training needs of the entire nation, although it does greatly enhance the nation's current state of preparedness. The federal agencies recognize this and have prepared this compendium of other federal courses which relate to the performance objectives developed for the Domestic Preparedness Train-the-Trainer courses.

The courses prepared under the Nunn-Lugar-Domenici legislation are described on page 5. Although only the top, by population, 120 cities are targeted to receive these Train-the Trainer courses it is the program's intent that the Trainers from the adjacent communities, state and regional agencies will be included in the each cities training. These trainers will provide a local capability to continue teaching the performance objectives as envisioned by the Nunn-Lugar-Domenici legislation.

Agencies providing courses are listed alphabetically and the individual courses are listed alphabetically within the agency. The database fields are titled to reflect field contents, making each entry self-explanatory. By way of clarification, it should be noted that NBC performance objectives addressed by a given courses are listed by the corresponding number of the performance objective in the Performance Objectives Matrix (Figure 1). Blank database fields exist where sponsoring organizations did not provide the required information.

Over ninety courses were identified during the collection of this compendium. Course materials were obtained for review from eleven federal agencies.

Of the over ninety courses ninety two were federally sponsored courses of instruction were identified as addressing one or more of the NBC emergency responder performance objectives. An additional six courses were identified by FEMA's Emergency Management Institute as being relevant to the program objective, although not directly addressing the identified NBC performance objectives. Courses available through the U.S. Army Chemical School focused more on chemical and biological areas, whereas those offered by the Department of Energy focused almost entirely on radiological aspects of the NBC arena.

C. Description of Domestic Preparedness Courses.

Awareness Training - is an introductory 30 minute video presentation to acquaint diverse employees at potential terrorist target facilities and 911 operators. The video will be presented in layman terms in both English and Spanish. There is no instructor requirement; however, a facilitator (provided by the facility employer) is recommended to introduce the video. The video will cover the general aspects of nuclear, biological and chemical terrorism; information on recognizing a nuclear, biological or chemical terrorist incident(s) through signs and symptoms; possible dissemination devices and self protection measures. Instructional materials include a facilitator's guide, a pamphlet for the participants and a 911 checklist for future reference.

Responder Awareness Training - is designed for initial emergency responders of a possible terrorist incident. These responders include firefighters, police officers and emergency medical responders. The goal of this four hour course is for emergency responders to recognize signs and symptoms of a nuclear, chemical and/or biological incident, to protect themselves and make proper notification.

This course includes:

- Introduction to the NBC Terrorism Threat
- Radiological, biological and chemical materials and weapons
- Dissemination Devices
- Responder Actions

Prior to enrollment in the Responder Awareness course, participants should have a basic understanding of principles and procedures for responding to a hazardous material incident. Upon completion of this course, participants will be able to teach other responders the signs and symptoms of chemical and biological agents and nuclear materials; potential devices used for dissemination; and defensive actions to safeguard themselves and their community.

Responder Operations Training - is designed specifically for incident response teams in a defensive mode. The Responder Awareness course is a prerequisite. This four hour course covers:

- Responder Actions at the operations level
- Chemical Downwind Hazard Analysis
- Personal Protection
- Introduction to Detection & Identification
- Emergency Decontamination Procedures
- Practical Exercise

After completing this course, participants will be able to instruct the technical aspects of nuclear, biological and chemical incidents, and the defensive actions required for responders to protect themselves and their community.

Technician HAZMAT - is a 12 hour stand alone course specifically designed for current HAZMAT trainers. HAZMAT trainers will learn the difference between responding to nuclear, biological and chemical terrorist incidents compared to a standard HAZMAT event. This course covers:

- Responder actions at the HAZMAT Technician Level
- NBC Agents at the HAZMAT Technician Level
- Protective Equipment
- Decontamination Procedures
- Chemical Classification, Detection and Identification
- Practical Exercise

Incident Command - provides incident commanders with the necessary information and considerations necessary to effectively command a nuclear, biological or chemical incident. The course consists of four hours of lecture and two hours of a tabletop exercise. Specific topics include coordination of resources; protective measures and associated risks; evacuation versus shelter-in-place considerations; perimeter security measures, management of mass casualties, and applications of the Federal Response Plan. This course covers the following modules:

- Challenges and Consequences of Management in an NBC Incident
- Tactical Considerations and Actions for nuclear, biological and chemical incidents
- Understanding the Roles of the Federal Government in an NBC Terrorist Incident
- NBC Terrorism Response and Planning Exercise

Senior Officials' Workshop - is designed to instruct and inform the senior leadership on how to:

- Employ an integrated planning, training and exercising effort among local agencies, multi-jurisdictions and mutual aid partners for response to a nuclear, biological or chemical terrorist incident
- Recognize probable nuclear, biological and chemical situations and the implications for the community
- Interact with state and federal agencies so operational assets can be assembled, assigned and employed with maximum effectiveness
- Interact with the media to calm public fears and maintain public confidence in local government

Technician EMS - course provides the EMS technician with the unique aspects of responding to a terrorist event involving nuclear, biological or chemical materials. This course includes recognizing nuclear, biological and chemical exposure; trends indicating possible events; safe and legal antidote requirements; unique triage of potential mass casualties and emergency medical field treatment demands.

Unique considerations for treating children and elderly victims of an NBC terrorist incident are also addressed. The course will consist of lectures, demonstrations and field exercises to include personal protection measures, detection, decontamination and triage.

Hospital Providers - is designed for emergency department physicians and nurses. This course will include the same subjects as the EMS course, however, at a more advanced level. Not only will it describe how to properly manage, decontaminate, diagnose and treat victims of a nuclear, biological or chemical incident but how to protect against cross-contamination using personal protective measures. The course will include nuclear, biological and chemical unique public health guidelines. This course consists of classroom lecture with demonstrations and case studies.



2. Federally-Sponsored NBC Courses (List).

**TITLE OF COURSE
AGENCY/SPONSOR**

Advanced Life Support Response to Hazardous Materials Incidents B-93
FEMA/National Fire Academy

Advanced Radiation Incident Operations (ARIO) B-81
FEMA/Emergency Management Institute

Agent Characteristics and Toxicology First Aid and Special Treatment (ACTFAST)
And use of Auto-injectors B-65
FEMA/CSEPP

Air Monitoring for Hazardous Materials (165.4)..... B-105
EPA

Air Sampling for Radioactive Materials B-21
DOE

Air Sampling for Toxic Substances B-37
DHHS-NIOSH/NY-NJ Educational Resource Center

ALARA for Design and Operations Engineers - Instructor Manual B-22
DOE

An Introduction to Protective Action Decision Making..... B-66
FEMA/CSEPP

Applied Health Physics..... B-23
DOE

Applied Radiation Protection..... B-38
DHHS-NIOSH/ North Carolina Educational Resource Center

Basic Life Support and Hazardous Materials Response..... B-94
FEMA/National Fire Academy

Certified Hazardous Materials Manager Review B-39
DHHS-NIOSH/ North Carolina Educational Resource Center

Chemical Accident/Incident Response & Assistance B-67
FEMA/CSEPP

Chemical Hazard Prediction B-68
FEMA/CSEPP

Chemical Hazard Prediction for Decision Makers B-69
FEMA/CSEPP

Chemical Protective Clothing B-40
DHHS-NIOSH/NY-NJ Educational Resource Center

Chemical Stockpile Agent Characteristics B-70
FEMA/CSEPP

Chemical/Biological Countermeasures Training (CBCT) B-1
U.S. Army Chemical School

Chemistry of Hazardous Materials	B-95
FEMA/National Fire Academy	
Command and Control of Fire Department Operations at Target Hazards.....	B-96
FEMA/National Fire Academy	
Command and Control of Operations at Natural and Man-Made Disasters.....	B-97
FEMA/National Fire Academy	
Community Integration at a WMD Incident Site	B-62
FBI	
Consequences of Terrorism, Integrated Emergency Management Course.....	B-82
FEMA/Emergency Management Institute	
Control of BioHazards in the Research Laboratory	B-41
DHHS-NIOSH/Johns Hopkins Educational Resource Center	
Crime Scene Awareness at a WMD Incident Site.....	B-63
FBI	
Crisis Management Program for Senior Officials.....	B-24
DOE	
CSEPP Chemical Awareness	B-71
FEMA/CSEPP	
Designs for Air Impact Assessments at Hazardous Waste Sites.....	B-106
EPA	
Ecological Toxicology and Environmental Risk Assessment	B-43
DHHS-NIOSH/NY-NJ Educational Resource Center	
Emergency Management Information System (EMIS)	B-72
FEMA/CSEPP	
Emergency Planner's Companion.....	B-73
FEMA/CSEPP	
Emergency Response to Criminal/Terrorist Incidents.....	B-83
FEMA/Emergency Management Institute	
Emergency Response to Hazardous Material Incidents	B-107
EPA	
Emergency Response to Terrorism: Basic Concepts	B-98
FEMA/National Fire Academy	
Emergency Response to Terrorism: Basic Concepts	B-112
DOJ/Office of Justice Programs	
Emergency Response to Terrorism: Incident Management.....	B-99
FEMA/National Fire Academy	
Emergency Response to Terrorism: Incident Management.....	B-113
DOJ/Office of Justice Programs	
Emergency Response to Terrorism: Self Study	B-100
FEMA/National Fire Academy	
Emergency Response to Terrorism: Tactical Considerations	B-101
FEMA/National Fire Academy	

Exercise Design Course	B-84
FEMA/Emergency Management Institute	
Exercise Evaluation Course.....	B-85
FEMA/Emergency Management Institute	
Federal Integration at a WMD Incident Site.....	B-4
FBI	
Field Management of Chemical and Biological Casualties	B-2
U.S. Army MRICD	
First Responder Training Workshop: Public Transportation Chemical,	B-114
Biological and Nuclear Incidents	
Department of Transportation	
Fit Testing Workshop.....	B-44
DHHS-NIOSH/University of Cincinnati Educational Resource Center	
Fundamentals Course for Radiological Response Teams.....	B-86
FEMA/Emergency Management Institute	
Fundamentals Course for Radiological Monitors.....	B-87
FEMA/Emergency Management Institute	
Handling of Radiation Accidents by Emergency Personnel.....	B-26
DOE Radiation Emergency Assistance Center and Training Site (REAC/TS)	
Hazardous Material Incident Response Operations (165.5).....	B-108
EPA (Environmental Response Team)	
Hazardous Materials Incident Management	B-102
FEMA/National Fire Academy	
Hazardous Materials Incident Response Operations (HAZWOPER).....	B-27
DOE	
Hazardous Materials Operating Site Practices.....	B-103
FEMA/National Fire Academy	
Hazardous Materials, OSHA 201A.....	B-45
DHHS-NIOSH/ University of Cincinnati Educational Resource Center	
Hazardous Substances Management and Response: Health & Safety Issues.....	B-46
DHHS-NIOSH/ Utah Educational Resource Center	
Health and Safety Plan Workshop (165.12)	B-109
U.S. EPA	
Health Physics for the Industrial Hygienist.....	B-28
DOE	
Health Physics in Radiation Accidents	B-29
DOE Radiation Emergency Assistance Center and Training Site (REAC/TS)	
How Do I Know?.....	B-74
FEMA/CSEPP	
Incident Command System for Emergency Medical Services	B-104
FEMA/National Fire Academy	

Incident Command System/Emergency Operations Center (ICS/EOC) Interface	B-88
FEMA/Emergency Management Institute	
Incident Command System for Law Enforcement Agencies	B-89
FEMA/Emergency Management Institute	
Incident Command System for Public Works	B-90
FEMA/Emergency Management Institute	
Incident Command/Unified Command for On-Scene Coordinators.....	B-110
EPA	
Introduction to Radiation Safety.....	B-30
DOE	
Limited Exposure.....	B-75
FEMA/CSEPP	
Management and Disposal of Radioactive Waste	B-47
DHHS-NIOSH/Harvard Educational Resource Center	
Management of Chemical Warfare Injuries	B-76
FEMA/CSEPP	
Managing Hazardous Materials Incidents	B-48
DHHS-NIOSH/Northwest Center for Occupational Health & Safety	
Mass Fatalities Incident Course	B-91
FEMA/Emergency Management Institute	
Medical Effects of Ionizing Radiation (MEIR).....	B-3
Armed Forces Radiobiology Research Institute (AFFRI)/Uniformed Services	
University of the Health Sciences (USUHS)	
Medical Management of Biological Casualties	B-4
U.S. Army Office of the Surgeon General (OTSG) (USAMRIID)	
Medical Management of Chemical and Biological Casualties	B-5
U.S. Army MRICD/MRIID	
Medical Planning and Care in Radiation Accidents.....	B-31
DOE Radiation Emergency Assistance Center and Training Site (REAC/TS)	
NBC Domestic Preparedness Training Basic Awareness (Employee).....	B-6
DOD/CBDCOM	
NBC Domestic Preparedness Training Incident Command.....	B-7
DOD/CBDCOM	
NBC Domestic Preparedness Training Responder – Awareness Courses.....	B-8
DOD/CBDCOM	
NBC Domestic Preparedness Training Responder – Operations Courses	B-9
DOD/CBDCOM	
NBC Domestic Preparedness Training Senior Officials Workshop	B-10
DOD/CBDCOM	
NBC Domestic Preparedness Training Technician –Emergency Medical Services	B-11
DOD/CBDCOM	
NBC Domestic Preparedness Training Technician Hazmat Courses	B-12
DOD/CBDCOM	

NBC Domestic Preparedness Training Technician – Hospital Provider	B-13
DOD/CBDCOM	
Nuclear Emergency Planning	B-49
DHHS-NIOSH/Harvard Educational Resource Center	
Nuclear Emergency Team (NET) Operations.....	B-14
Defense Nuclear Weapons School (DNWS)	
Nuclear Hazards Training Course	B-15
Defense Nuclear Weapons School (DNWS)	
Occupational Health in Nuclear Facilities.....	B-32
DOE Radiation Emergency Assistance Center and Training Site (REAC/TS)	
Occupational Respiratory Protection	B-50
DHHS-NIOSH/Johns Hopkins Educational Resource Center	
Operational Radiation Safety	B-16
U.S. Army Chemical School	
Overview of Respiratory Protection.....	B-51
DHHS-NIOSH/University of Cincinnati Educational Resource Center	
Personal Protective Equipment	B-77
FEMA/CSEPP	
Pesticides: Risk Evaluation & Site Mitigation	B-52
DHHS-NIOSH/Northern California Educational Resource Centers	
Preparing for and Managing the Consequences of Terrorism	B-20
National Guard Bureau	
Pulmonary Function Training	B-53
DHHS-NIOSH/Southwest Center for Occupational & Environmental Health	
Quantitative Fit Testing.....	B-54
DHHS-NIOSH/ Southwest Center for Occupational & Environmental Health	
Radiation Safety at Superfund Sites.....	B-111
EPA	
Radiation Safety Officer Course	B-55
DHHS-NIOSH/ Southwest Center for Occupational & Environmental Health	
Radioactive Material Basics for Emergency Responders	B-33
DOE	
Radioactivity in the Environment: Risk, Assessment, and Measurement.....	B-57
DHHS-NIOSH/Harvard Educational Resource Center	
Radiological Emergency Response	B-34
DOE	
Radiological Emergency Response Operations (RERO).....	B-92
FEMA/Emergency Management Institute	
Respiratory Protection and Respirator Fit Testing.....	B-58
DHHS-NIOSH/Minnesota Educational Resource Center	
Respiratory Protection Program	B-59
DHHS-NIOSH/ Southwest Center for Occupational & Environmental Health	
Response Phase Decontamination for CSEPP.....	B-78
FEMA/CSEPP	

Sampling for Hazardous Materials	B-60
DHHS-NIOSH/NY-NJ Educational Resource Center	
Sampling of Hazardous Materials	B-61
DHHS-NIOSH/North Carolina Educational Resource Center	
Radiological Accident Command Control and Coordination (RAC3).....	B-17
Defense Nuclear Weapons School (DNWS)	
Technical Planning and Evaluation.....	B-79
FEMA/CSEPP	
Toxic Aid Automated Training	B-18
DOD/ERDEC	
Toxic Chemical Training For Medical Support Personnel	B-19
DOD/CBDCOM	
Transportation Public Information Training	B-35
DOE	
Use of Auto-Injectors by Civilian Emergency Medical Personnel to Treat Civilians	
Exposed to Nerve Agent	B-80
FEMA/CSEPP	

APPENDIX A

PERFORMANCE OBJECTIVES MATRIX

Performance Objectives Matrix

Performance Requirements						
<i>Legend for requirements:</i> ○ - basic level ● - advanced level ◆ - specialized						
Competency level		Awareness		Operations	Technician/ Specialist	Incident Command
		Employees	Responders			
Examples		Facility workers, hospital support personnel, janitors, security guards	Initial firefighters, police officers, 911 operators/ dispatchers	Incident response teams, EMS basic HAZMAT personnel on scene	Incident response team specialist, technicians, EMS advanced, and medical specialist	Incident Commanders
Areas of Competency	Ref.					
1. Know the potential for terrorist use of NBC weapons: - what nuclear/biological/chemical (NBC) weapons substances are, - their hazards, and risks associated with them, - likely locations for their use, - the potential outcomes of their use by terrorist - indicators of possible criminal or terrorist activity involving such agents, - behavior of NBC agents.	C, F, M, m, G	○ ○ ○ ○	● ● ● ● ●	● ● ● ● ● ●	● ◆ ● ● ● ◆	● ● ● ● ● ●
2. Know the indicators, signs and symptoms for exposure to NBC agents, and identify the agents from signs and symptoms, if possible.	C, F, M, m	○	●	●	◆	●
2a. Knowledge of questions to ask caller to elicit critical information regarding an NBC incident.	G, m		● (911 only)			
2b. Recognize unusual trends which may indicate an NBC incident.	G, m		●	●	◆	●
3. Understand relevant NBC response plans and SOPs and your role in them.	C, F, M, m	○	●	●	●	●
4. Recognize and communicate the need for additional resources during a NBC incident.	C, m, G	○	●	●	●	●
5. Make proper notification and communicate the NBC hazard.	C, F, M, m	○	●	●	●	●
6. Understand: - NBC agent terms - NBC toxicology terms	C, F, m	○	●	● ● (EMS-8 only)	● ●	● ●
7. Individual protection at a NBC incident - Use self-protection measures - Property use assigned NBC protective equipment - Select and use proper protective equipment	C, F, M, m	○	●	● ● ●	◆ ◆ ◆	● ● ●
8. Know protective measures, and how to initiate actions to protect others and safeguard	F, M	○	●	●	●	●

Legend for references:

C - 29 CFR 1910.120 (OSHA Hazardous Waste Operations and Emergency response)

M - Macro objectives developed by a training subgroup of the Senior Interagency Coordinating Group)

m - Micro objectives developed by U.S. Army Chemical & Biological Defense Command

G - Focus Group workshop

F - NFPA Standard 472 (Professional Competence of Responders to Hazardous Materials Incidents) and/ or NFPA Standard 473 (Competencies for EMS Personnel Responding to Hazardous Materials Incidents)

Performance Objectives Matrix

Performance Requirements						
<i>Legend for requirements:</i> ○ - basic level ● - advanced level ◆ - specialized						
	Competency level	Awareness		Operations	Technician/ Specialist	Incident Command
		Employees	Responders			
property in an NBC incident.						
8a. Know measures of evacuation of personnel in a downwind hazard area for an NBC incident.	M, G		●	●		●
9. CB decontamination procedures for self victims, site/ equipment and mass casualties: - Understand & implement - Determine	C, F, M, m	○ self	●	● ●	◆ ◆	● ●
10. Know crime scene and evidence preservation at an NBC incident.	F, M, m	○	● (except 911)	●	●	●
10a. Know procedures and safety precautions for collecting legal evidence at an NBC incident.	F, G, m		●	●	◆	●
11. Know Federal and other support infrastructure and how to access in an NBC incident.	C, F, M, m		○ (911 only)	○	●	◆
12. Understand the risks of operating in protective clothing when used at a NBC incident.	C, F, m		○	●	●	●
13. Understand emergency and first aid procedures for exposure to NBC agents, and principles of triage.	F, M		○	●	◆	○
14. Know how to perform hazard and risk assessment for NBC agents.	C, F, M, m			●	◆	●
15. Understand termination/ all clear procedures for a NBC incident.	C, F, m			●	●	●
16. Incident Command System/ Incident Management System - Function within role in NBC incident - Implement for NBC incident	C, F, M			●	●	◆ ◆
17. Know how to perform NBC contamination control and containment operations, including for fatalities.	C, F, M, m			●	◆	●
17a. Understand procedures and equipment for safe transport of contaminated items.	G, m			●	◆	●
18. Know the classification, detection, identification and verification of NBC materials using field survey instruments and equipment,	C, F, M, m			○	◆	●

Legend for references:

C - 29 CFR 1910.120 (OSHA Hazardous Waste Operations and Emergency response)

M - Macro objectives developed by a training subgroup of the Senior Interagency Coordinating Group)

m - Micro objectives developed by U.S. Army Chemical & Biological Defense Command

G - Focus Group workshop

F - NFPA Standard 472 (Professional Competence of Responders to Hazardous Materials Incidents) and/ or NFPA Standard 473 (Competencies for EMS Personnel Responding to Hazardous Materials Incidents)

Performance Objectives Matrix

Performance Requirements						
<i>Legend for requirements:</i> ○ - basic level ● - advanced level ◆ - specialized						
Competency level		Awareness		Operations	Technician/ Specialist	Incident Command
		Employees	Responders			
and methods for collection of solid, liquid and gas samples.						
19. Know safe patient extraction and NBC antidote administration.	F, m			● (medical only)	◆ (medical only)	○
20. Know patient assessment and emergency medical treatment in NBC incident	M, m, G			● (medical only)	◆ (medical only)	
21. Be familiar with NBC related Public Health & Local EMS issues.	G			● (medical only)	● (medical only)	○
22. Know procedures for patient transport following NBC incident.	F, G			● (medical only)	● (medical only)	○
23. Execute NBC triage and primary care	G			● (medical only)	◆ (medical only)	
24. Know laboratory identification and diagnosis for biological agents.	G				◆ (medical only)	
25. Have the ability to develop a site safety plan and control plan for a NBC incident.	C, F				◆	◆
26. Have ability to develop NBC response plan and conduct exercise of response.	G, m					●



Legend for references:

C - 29 CFR 1910.120 (OSHA Hazardous Waste Operations and Emergency response)

M - Macro objectives developed by a training subgroup of the Senior Interagency Coordinating Group)

m - Micro objectives developed by U.S. Army Chemical & Biological Defense Command

G - Focus Group workshop

F - NFPA Standard 472 (Professional Competence of Responders to Hazardous Materials Incidents) and/ or NFPA Standard 473 (Competencies for EMS Personnel Responding to Hazardous Materials Incidents)

APPENDIX B

COMPENDIUM
of
FEDERALLY-SPONSORED
NBC RELATED COURSES



DEPARTMENT OF DEFENSE (DOD)

Course Title **Chemical/Biological Countermeasures Training (CBCT)**

<u>Course Sponsor</u>	U.S. Army Chemical School
<u>Course Description</u>	This is an Introductory Course which enables civilian agencies to develop internal procedures for responding to an NBC agent terrorist attack. Each iteration is tailored to fit the needs of the agency participating in the training. The recommended course length is three and one half days. This can be lengthened or shortened based on the agency's mission and the training required. A three hour nuclear radiation portion may be added if desired.
<u>Course Objectives</u>	<ol style="list-style-type: none">a. Understand CB terrorist threat.b. Understand chemical and biological agents, effects, behavior.c. Understand protection and decontamination equipment and procedures.d. Participate in live agent training.e. Understand the military support to a CB incident.
<u>NBC Areas of Competency</u>	1, 2, 2a, 2b, 3, 6, 7, 8, 8a, 9, 12-17, 18, 19, 26
<u>Target Audience</u>	
Military/Civilian/both	Civilian
Emergency Responder Group	Firefighter/HAZMAT, Incident Commanders
Emergency Responder Levels	Awareness Level, Operational Level.
<u>Type of Instruction</u>	
Medium	Classroom and practical exercise.
Gov/Contractor	Government
<u>Recommended</u>	
<u>Class Size</u>	Less than 50 (20 - 25)
<u>Course Location/ Facility Dependent</u>	Yes. Use of CDTF & Tactical Clearing
<u>Course Availability</u>	Within 30 days
<u>Cost (Does not include billeting)</u>	\$362 per person & travel, lodging & meal costs
<u>POC</u>	Mr. Michael Sheheane
<u>Address</u>	U.S. Army Chemical School, Attn: Ft. McClellan, AL 36205
<u>Phone Number</u>	(205) 848-4814 Fax: (205) 848-6786
<u>Prerequisites</u>	10 days prior coordination; HAZMAT Level 1 certification; medical screening; 20/40 vision or optical inserts.
<u>Comments</u>	Some training is military equipment oriented. Nuclear module may be added. Tabs B, C, D and I of training course are particularly relevant. Does not cover the nuclear component.

Course Title **Field Management of Chemical and Biological Casualties**

<u>Course Sponsor</u>	U.S. Army MRICD
<u>Course Description</u>	The course is intended for non-medical officers and non-commissioned officers. The course is intended for first responders in military field units. Emphasis is placed on the initial treatment of casualties, transportation, and decontamination of chemical and biological agent casualties. The course is held four times a year at the U.S. Army Medical Research Institute of Chemical Research and the U.S. Army Medical Research Institute of Infectious Diseases. The course is 5 days in length.
<u>Course Objectives</u>	<ol style="list-style-type: none">Recognize the military terms for chemical agents, the clinical effects of the agents, and means of therapeutic intervention in a field environment.Recognize methods of managing contaminated and uncontaminated casualties in a field environment.Recognize the historical aspects of chemical agent use in warfare and identify chemical warfare capabilities practiced in the world today by countries or by terrorist groups.
<u>NBC Areas of Competency</u>	2, 8a, 9, 13, 14, 19, 20, 22
<u>Target Audience</u>	
Military/Civilian/both	Both
Emergency Responder Group	Firefighter/HAZMAT, Law Enforcement,
Emergency Responder Levels	Awareness Level, Operations Level and Technician Level.
<u>Type of Instruction</u>	
Medium	Classroom, paper based, video, CD-ROM and practical exercise.
Gov/Contractor	Both
<u>Recommended Class Size</u>	Less than 50
<u>Course Location/ Facility Dependent</u>	No
<u>Course Availability</u>	Within 90 days
<u>Cost (Does not include billeting)</u>	\$15,000 per course
<u>POC</u>	COL Charles Hurst, MC (MRICD)
<u>Address</u>	USAMRICD, Edgewood Area, Aberdeen Proving Ground, MD 21010
<u>Phone Number</u>	(410) 671-2230
<u>Comments</u>	Requires video cassette and CD ROM. Does not cover the nuclear component.

Course Title **Medical Effects of Ionizing Radiation (MEIR)**

<u>Course Sponsor</u>	Armed Forces Radiobiology Research Institute (AFFRI)/USUHS
<u>Course Description</u>	A 4 day course directed at physicians and other health care providers who require specialized training in nuclear disaster response. Topics covered include threat of nuclear exposure; principles and biology of ionizing radiation; radiation pathology; acute radiation syndrome; combined injury; psychological reactions; radioprotection/prophylaxis; radioactive fallout and radiological defense; internal radionuclide contamination management; and biomedical lessons learned from recent radiation accidents.
<u>Course Objectives</u>	Provides background relating to human injury and combat effectiveness in nuclear weapons detonation or accident scenarios. a. Principles of Nuclear Weapons b. Ionizing Radiation effects c. Medical problems associated with radiation, including external exposure and internal contamination
<u>NBC Areas of Competency</u>	2, 2a, 7, 16, 17, 19, 20, 21 and 23
<u>Target Audience</u>	
Military/Civilian/both	Military
Emergency Responder Group	Emergency Medical Services (e.g., EMT, Paramedic), Emergency Medical Doctors/Nurses, Tertiary Care Physicians/Nurses,
Emergency Responder Levels	Senior Level Management
<u>Recommended Class Size</u>	Less than 100
<u>Course Location/ Facility Dependent</u>	No
<u>Course Cost</u> <u>(Does not include billeting)</u>	No tuition. All program iteration costs by funding agency.
<u>POC Address</u>	Office of Military Medical Operations Armed Forces Radiobiology Research Institute, 8901 Wisconsin Ave, Bethesda, MD 20889-5603 (301)-295-0316
<u>Phone Number</u>	
<u>Comments</u>	MEIR courses available as mobile training team. The course cover known data on chemical/biological interactions with radiation.
<u>Prerequisites</u>	None

Course Title **Medical Management of Biological Casualties**

Course Sponsor U.S. Army Office of the Surgeon General (OTSG) (USAMRIID)
Course Description Under development, this course will be available in CD-ROM format. It will present medical treatment protocols for immediate care of casualties, as well as information on agent detection and containment, decontamination, self-protection strategies and support activities. It will consist of three tracks: one for medical professionals (physicians, nurses and physicians assistants), one for first responders (military medics, EMTs and paramedics), and one for commanders and other non-medical personnel. Length: 6.5 days

Course Objectives a. Describe physiology and signs and symptoms of exposure to biological agents.
b. Diagnose and treat biological agent casualties.

NBC Areas of Competency 13, 17, 19, 20

Target Audience
Military/Civilian/both Military
Emergency Responder Group Firefighter/HAZMAT, Emergency Medical Services (e.g., EMT, Paramedic)
Emergency Responder Levels Awareness Level, Operations Level, Technician/Specialist Level, EMS Level, Senior Management Level.

Type of Instruction
Medium CD-ROM.
Gov/Contractor Both

Recommended Class Size Less than 50

Course Location/Facility Dependent No

POC MAJ Julie Pavlin
Address USAMRIID, Attn: Operational Medicine Div., 1425 Porter St., Ft. Detrick, MD 21701
Phone Number (301) 619-4636

Comments Copies can be ordered from the National Audiovisual Center, (703) 487-4630. Originally scheduled availability in late 1997; now mid 1998. Target audience is military, although civilians can use. Does not cover the nuclear/chemical components.

Course Title **Medical Management of Chemical and Biological Casualties**

<u>Course Sponsor</u>	U.S. Army MRICD/MRIID
<u>Course Description</u>	The course is intended for military medical personnel (physicians, nurses, physicians assistants, and certain corpsmen) and for civilian medical personnel who work around military chemical agents or who might manage military chemical or biological agent casualties (e.g., in war or after a depot accident). The prerequisite is that the attendee be a health care provider. The course is held 4 times a year at the U.S. Army Medical Research Institute of Chemical Research and the U.S. Army Medical Research Institute of Infectious Diseases. The course is 6.5 days in length.
<u>Course Objectives</u>	Recognize the military terms for chemical and biological agents, the clinical effects of the agents, and means of therapeutic intervention in both a medical center and a field environment. Recognize methods of managing contaminated and uncontaminated casualties in a field environment or a fixed medical facility. Recognize the historical aspects of chemical and biological agent use in warfare and identify chemical and biological warfare capabilities practiced in the world today by countries or by terrorist groups.
<u>NBC Areas of Competency</u>	2, 8a, 9, 13, 14, 19, 20, 22
<u>Target Audience</u>	
Military/Civilian/both	Military
Emergency Responder Group	Firefighter/HAZMAT, Emergency Medical Services (e.g., EMT, Paramedic)
Emergency Responder Levels	Awareness Level, Operations Level, Technician/Specialist Level, EMS Level, Senior Management Level.
<u>Type of Instruction</u>	
Medium	Classroom, paper based, video, computer based and practical exercise.
Gov/Contractor	Both
<u>Recommended Class Size</u>	Less than 50
<u>Course Location/ Facility Dependent</u>	No
<u>Cost (Does not include billeting)</u>	\$15,000 per course
<u>POC</u>	COL Charles Hurst (MRICD)
<u>Address</u>	Edgewood Area, Aberdeen Proving Ground, MD 21010
<u>Phone Number</u>	(410) 671-2230
<u>Comments</u>	A 3-day version of the course is available for export within 3 months of a request, subject to instructor availability. The 6 1/2 day course is scheduled 2 years in advance and focuses on military medical personnel. Required videocassette player and CD ROM. Does not cover the nuclear component. Course available pending funding.

Course Title NBC Domestic Preparedness Training Basic Awareness (Employee)

Course Sponsor DOD/CBDCOM

Course Description A video presentation designed to acquaint a diversified audience of employees (e.g., security guards, 9-1-1 operators/dispatchers, cleaning staff, ticket takers, hospital support staff, baggage handlers) at potential terrorist target facilities with the signs and symptoms associated with a nuclear, biological and chemical terrorist incident, and how to recognize and respond to such an incident. The course includes a facilitator's guide and an example 9-1-1 checklist. Length: 30 minutes

Course Objectives Upon completion of the training, employees should:

- Know the potential for terrorist use of NBC weapons.
- Be able to recognize an NBC attack.
- Know how to make proper notification and communicate the NBC hazard.

In addition, 9-1-1 Operators/Dispatchers should:

- Know the questions to elicit critical NBC agent information from callers.
- Recognize unusual trends that may indicate an NBC incident.
- Know protective measures and how to initiate actions to protect others and safeguard property.
- Know the support infrastructure and how to access it in an NBC incident.

NBC Areas of Competency 1,2,3,4,5,6,7,8,9,10

Target Audience

Military/Civilian/Both	Civilian
Emergency Responder Group	Facility employees
Emergency Responder Levels	Awareness

Type of Instruction

Medium	Classroom TV/VCR
Gov/Contractor	Gov/Contractor

Recommended Class Size Limited only by facility capacity

Course Location/ Facility Dependent No

POC Address Domestic Preparedness CB HelpLine
U.S Army Chemical and Biological Defense Command, Aberdeen Proving Grounds, MD 21010

Phone Number 1-800-368-6498

Comments This video presentation is part of the National Defense Authorization Act for FY96, Title XIV Defense Against Weapons of Mass Destruction Preparedness Training Program which include Senior Officials Workshop, Employee Basic Awareness Video, Responder Awareness, Responder Operations, Incident Command, Hazmat Technician, EMS Technician, and Hospital Provider Technician.

Course Title **NBC Domestic Preparedness Training Incident Command Course**

Course Sponsor DOD/CBDCOM

Course Description An advanced-level course designed to “train-the-trainers” of incident commanders (Battalion Chief [or equivalent] and above). Focus is on the management and associated decision making relevant to an NBC terrorist incident site and coordination of the response resources. Training will include a scenario-based table-top exercise. Training builds upon the information contained in the Emergency Responder Awareness and Operations courses (or Technician-HAZMAT course). Length: 6 hours

Course Objectives Upon completion of the training and appropriate self-study and rehearsal, trainers will be prepared to provide instruction in the following areas summarized below (specific performance objectives are shown at Appendix A):

- Management of the incident site from the Incident Command perspective.
- Coordination of response assets.
- Procedures and resources for handling mass casualties to include mass decontamination.
- Downwind hazard impact and the decision to evacuate or protect in place.
- Decisions regarding detection, identification, protective equipment, decontamination and reoccupation of the facility.
- The Federal Response Plan and its relationship to an NBC terrorism incident.
- Development of a site safety plan.
- Development and exercise of an NBC response plan.

NBC Areas of

Competency 1,2,2b,3,4,5,6,7,8,8a,9,10,10a,11,12,13,14,15,16,17,17a,18,19,21,22,25,26

Target Audience

Military/Civilian/Both	Civilian
Emergency Responder Group	Incident Commander
Emergency Responder Levels	Incident Command

Type of Instruction

Medium Classroom. Additional “break-out” room or table-top exercise. TV/VCR, 35 mm slide projector and screen, 2 white boards, chalkboards and a Butcher Block paper

Gov/Contractor Gov/Contractor

Recommended 10-20 students

Class Size

Course Location/

Facility Dependent No

POC Domestic Preparedness CB HelpLine

Address U.S Army Chemical and Biological Defense Command, Aberdeen Proving Grounds, MD 21010

Phone Number 1-800-368-6498

Prerequisites *Successful completion of the Emergency Responder Awareness and Operations level courses (or Technician-HAZMAT course).* Knowledge of the principles and working experience in responding to a HAZMAT incident. Knowledge and understanding of incident command and the Incident Command System. Prior training and competence as an instructor.

Comments This video presentation is part of the National Defense Authorization Act for FY96, Title XIV Defense Against Weapons of Mass Destruction Preparedness Training Program which include Senior Officials Workshop, Employee Basic Awareness Video, Responder Awareness, Responder Operations, Incident Command, Hazmat Technician, EMS Technician, and Hospital Provider Technician.

Course Title NBC Domestic Preparedness Training Responder- Awareness Course

Course Sponsor DOD/CBDCOM

Course Description A course designed to “train-the-trainers” of initial emergency responders (e.g., firefighters, emergency medical responders and law enforcement personnel) to nuclear, biological and chemical terrorist incidents. Length: 4 hours

Course Objectives Upon completion of the training and appropriate self-study and rehearsal, trainers will be prepared to provide instruction in the following areas (specific performance objectives are shown at Appendix A):

- The NBC terrorist threat.
- Recognizing an NBC incident through signs, symptoms, and trends.
- Chemical and biological agents and types of radiological materials that might be used and relevant terminology.
- The physiological and psychological effects of C/B agents and radiological material.
- Potential dissemination devices.
- Individual protective measures.
- Responder actions.

NBC Areas of Competency 1,2,2a,2b,3,4,5,6,7,8,8a,9,10,10a,11,12,13,

Target Audience

Military/Civilian/Both	Civilian
Emergency Responder Group	Firefighter/Hazmat, Law Enforcement, Emergency Medical Services (EMT/Paramedics), Incident Commanders, and First Responder Trainers
Emergency Responder Levels	Awareness

Type of Instruction

Medium	Classroom, TV/VCR, 35 mm slide projector/screen
Gov/Contractor	Gov/Contractor

Recommended

Class Size Optimum: 25 students, Maximum: 50 students

Course Location/

Facility Dependent No

POC

Address Domestic Preparedness CB HelpLine
U.S Army Chemical and Biological Defense Command, Aberdeen Proving Grounds, MD 21010

Phone Number 1-800-368-6498

Prerequisites

A basic understanding of, and familiarity with, the principles and procedures for responding to a HAZMAT incident. Prior training and competency as an instructor.

Comments

This video presentation is part of the National Defense Authorization Act for FY96, Title XIV Defense Against Weapons of Mass Destruction Preparedness Training Program which include Senior Officials Workshop, Employee Basic Awareness Video, Responder Awareness, Responder Operations, Incident Command, Hazmat Technician, EMS Technician, and Hospital Provider Technician.

Course Title **NBC Domestic Preparedness Training Responder- Operations Course**

Course Sponsor DOD/CBDCOM

Course Description An intermediate-level course designed to “train-the-trainers” of operations level emergency responders (e.g., incident response teams and EMS basic personnel) on nuclear, biological and chemical terrorist incidents. This course builds on the information presented in the Emergency Responder Awareness course. Length: 4 hours

Course Objectives Upon completion of the training and appropriate self-study and rehearsal, trainers will be prepared to provide instruction in the following areas (specific performance objectives are shown at Appendix A):

- Responder actions at the operations level under the Incident Command System.
- Basic chemical downwind hazard prediction.
- Personal protection requirements and capabilities.
- Introduction to detection and identification equipment for NBC agents.
- Emergency decontamination procedures for victims and responders.

NBC Areas of Competency 1,2,2b,3,4,5,6,7,8,8a,9,10,10a,11,12,13,14,15,16,17,17a,18,19,20,21,22,23

Target Audience

Military/Civilian/Both	Civilian
Emergency Responder Group	Firefighter/Hazmat, Law Enforcement, Emergency Medical Services (EMT/Paramedics), Incident Commanders, and First Responder Trainers
Emergency Responder Levels	Operations

Type of Instruction

Medium	Classroom, TV/VCR, 35 mm slide projector/screen, Overhead projector
Gov/Contractor	Gov/Contractor

Recommended

Class Size Optimum: 25 students, Maximum: 50 students

Course Location/
Facility Dependent No

POC Domestic Preparedness CB HelpLine

Address U.S Army Chemical and Biological Defense Command, Aberdeen Proving Grounds, MD 21010

Phone Number 1-800-368-6498

Prerequisites *Successful completion of the Emergency Responder Awareness course.* Knowledge of the principles and working experience in responding to a HAZMAT incident. Prior training and competency as an instructor.

Comments This video presentation is part of the National Defense Authorization Act for FY96, Title XIV Defense Against Weapons of Mass Destruction Preparedness Training Program which include Senior Officials Workshop, Employee Basic Awareness Video, Responder Awareness, Responder Operations, Incident Command, Hazmat Technician, EMS Technician, and Hospital Provider Technician.

Course Title NBC Domestic Preparedness Training Senior Officials Workshop

Course Sponsor DOD/CBDCOM
Course Description A workshop, intended to instruct and inform the senior leadership of the city, which is comprised of a 3-hour lecture and a 3.5-hour exercise. The lecture and exercise can be done on separate days. Length: 6.5 hours

Course Objectives Upon completion of the training, participants should be able to:

- Employ an integrated planning, training and exercising effort among all involved local agencies and between the local jurisdiction and its mutual aid partners for an NBC terrorist incident.
- Recognize probable NBC situations and the implications these situations have on the community.
- Interact with state and federal personnel so that operational assets can be assembled, assigned and employed with maximum effectiveness.
- Interact with the media to calm public fears and maintain public confidence in local government.

NBC Areas of Competency NONE

Target Audience

Military/Civilian/Both	Civilian
Emergency Responder Group	Mayor and his cabinet
Emergency Responder Levels	Senior Management

Type of Instruction

Medium	Conference/classroom, TV/VCR, Screen
Gov/Contractor	Gov/Contractor

Recommended Class Size Optimum: 10 students, Maximum: 20 students

Course Location/ Facility Dependent No

POC Address Domestic Preparedness CB HelpLine
U.S Army Chemical and Biological Defense Command, Aberdeen Proving Grounds, MD 21010

Phone Number 1-800-368-6498

Prerequisites A general understanding of the city's emergency management plan

Comments This video presentation is part of the National Defense Authorization Act for FY96, Title XIV Defense Against Weapons of Mass Destruction Preparedness Training Program which include Senior Officials Workshop, Employee Basic Awareness Video, Responder Awareness, Responder Operations, Incident Command, Hazmat Technician, EMS Technician, and Hospital Provider Technician.

Course Title NBC Domestic Preparedness Training Technician- Emergency Medical Services Course

<u>Course Sponsor</u>	DOD/CBDCOM
<u>Course Description</u>	An advanced-level course designed to “train-the-trainers” of Emergency Medical Service responders (e.g., EMT and paramedics) to nuclear, biological and chemical terrorist incidents. Training will be conducted both in the classroom as well as in a practical exercise training area. This course builds on the information presented in the Emergency Responder Awareness course. Length: 8 hours
<u>Course Objectives</u>	Upon completion of the training and appropriate self-study and rehearsal, trainers will be prepared to provide performance-based training in the following areas (specific performance objectives are shown at Appendix A): <ul style="list-style-type: none">• Acute health effects of NBC agent exposure.• Recognition of trends indicating possible NBC incident.• Safe and legal antidote administration.• NBC unique triage and mass casualty considerations.• Emergency medical field treatment for NBC agents.
<u>NBC Areas of Competency</u>	1,2,2b,3,4,5,6,7,8,9,10,10a,11,12,13,14,15,16,17,17a,18,19,20,21,22,23,24,25
<u>Target Audience</u>	
Military/Civilian/Both	Civilian
Emergency Responder Group	Emergency Medical Services (EMT/Paramedics)
Emergency Responder Levels	Technical/Specialist Level
<u>Type of Instruction</u>	
Medium	Classroom, TV/VCR, 35 mm slide projector/screen,
Gov/Contractor	Gov/Contractor
<u>Recommended Class Size</u>	10-15 students
<u>Course Location/ Facility Dependent</u>	Practical exercise training area approximately 50’ x 50’, and inclement weather alternative
<u>POC</u>	Domestic Preparedness CB HelpLine
<u>Address</u>	U.S Army Chemical and Biological Defense Command, Aberdeen Proving Grounds, MD 21010
<u>Phone Number</u>	1-800-368-6498
<u>Prerequisites</u>	<i>Successful completion of the Emergency Responder Awareness course.</i> Specialized experience using the principles of, and familiarity with, the principles and procedures for the EMS response to a HAZMAT incident. Prior training and competency as an instructor.
<u>Comments</u>	This video presentation is part of the National Defense Authorization Act for FY96, Title XIV Defense Against Weapons of Mass Destruction Preparedness Training Program which include Senior Officials Workshop, Employee Basic Awareness Video, Responder Awareness, Responder Operations, Incident Command, Hazmat Technician, EMS Technician, and Hospital Provider Technician. Up to sixteen volunteer mock victims (minimum eight) required for the practical exercise.

Course Title

NBC Domestic Preparedness Training Technician Hazmat Course

Course Sponsor

DOD/CBDCOM

Course Description

An advanced-level course designed to “train-the-trainers” of HAZMAT Technician-level emergency responders on nuclear, biological and chemical terrorist incidents. Length: 12 hours

Course Objectives

Upon completion of the training and appropriate self-study and rehearsal, trainers will be prepared to provide performance-based training in the following areas (specific performance objectives are shown at Appendix A):

- The NBC terrorist threat
- Recognizing an NBC incident through signs, symptoms, and trends.
- Chemical and Biological agents and types of radiological materials that might be used and relevant terminology.
- Chemical agent terms, symbols, definitions, physical characteristics, technical data, and behavior.
- The physiological and psychological effects of C/B agents and radiological material.
- Immediate first aid and decontamination of each type of NBC hazard.
- Potential dissemination devices.
- Operation and use of field survey instruments and equipment for detection and identification of NBC materials.
- Selection and use of personal protective equipment.
- Implementing decontamination procedures.
- Responder actions at the technician level under the Incident Command System.

NBC Areas of Competency

1,2,2b,3,4,5,6,7,8,9,10,10a,11,12,13,14,15,16,17,17a,18,19,20,21,22,23,24,25

Target Audience

Military/Civilian/Both	Civilian
Emergency Responder Group	Hazmat
Emergency Responder Levels	Technical/Specialist Level

Type of Instruction

Medium	Classroom, TV/VCR, 35 mm slide projector/screen
Gov/Contractor	Gov/Contractor

Recommended

Class Size

10-15 students

Course Location/

Facility Dependent

Practical exercise training area to simulate hot, warm and cold zones; also inclement weather alternative.

POC

Domestic Preparedness CB HelpLine

Address

U.S Army Chemical and Biological Defense Command, Aberdeen Proving Grounds, MD 21010

Phone Number

1-800-368-6498

Prerequisites

Specialized experience using the principles and procedures for responding to a HAZMAT incident. Prior training and competency as an instructor.

Comments

This video presentation is part of the National Defense Authorization Act for FY96, Title XIV Defense Against Weapons of Mass Destruction Preparedness Training Program which include Senior Officials Workshop, Employee Basic Awareness Video, Responder Awareness, Responder Operations, Incident Command, Hazmat Technician, EMS Technician, and Hospital Provider Technician. Upon completion of this course, the trainers have satisfied the Incident Command Course prerequisites.

Course Title **NBC Domestic Preparedness Training Technician- Hospital Provider Course**

Course Sponsor DOD/CBDCOM

Course Description An advanced-level course designed to “train-the-trainers” of hospital providers (e.g., Emergency Department physicians, nurses) treating victims of nuclear, biological and chemical terrorist incidents. It will include the same subjects as the Technician-Emergency Medical Service course, but at a more advanced level. Training will consist of lecture, demonstration and case studies. Length: 8 hours

Course Objectives Upon completion of the training and appropriate self-study and rehearsal, trainers will be prepared to provide training in the following areas (specific performance objectives are shown at Appendix A):

- Acute health effects of NBC agent exposure.
- Recognition of trends indicating possible NBC incident.
- Safe and legal antidote administration.
- NBC unique triage and mass casualty considerations.
- Decontamination of victims.
- Emergency medical treatment for NBC agents.
- Unique public health guidelines.

NBC Areas of Competency 1,2,2b,3,4,5,6,7,8,9,10,10a,11,12,13,14,15,16,17,17a,18,19,20,21,22,23,24,25

Target Audience
Military/Civilian/Both Civilian
Emergency Responder Group Emergency Room, Doctors/Nurses
Emergency Responder Levels Operations Level, Technical/Specialist Level

Type of Instruction
Medium Classroom, TV/VCR, 35 mm slide projector/screen
Gov/Contractor Gov/Contractor

Recommended Class Size Optimum: 15 students, Maximum: 25 students

Course Location/ Facility Dependent No

POC Domestic Preparedness CB HelpLine
Address U.S Army Chemical and Biological Defense Command, Aberdeen Proving Grounds, MD 21010

Phone Number 1-800-368-6498

Prerequisites Understanding of, and familiarity with, the principles and procedures for the hospital response to a HAZMAT incident. Prior training and competency as an instructor.

Comments This video presentation is part of the National Defense Authorization Act for FY96, Title XIV Defense Against Weapons of Mass Destruction Preparedness Training Program which include Senior Officials Workshop, Employee Basic Awareness Video, Responder Awareness, Responder Operations, Incident Command, Hazmat Technician, EMS Technician, and Hospital Provider Technician. Upon completion of this course, the trainers have satisfied the Incident Command Course prerequisites.

Course Title **Nuclear Emergency Team (NET) Operations**

Course Sponsor Defense Nuclear Weapons School (DNWS)
Course Description Field exercises involving alpha contamination and gamma radiation provide realistic scenarios for students to practice lessons in this 1 week, 4 days course. Course emphasis is on nuclear components and related materials which present special problems in accident and incident situations; characteristics, operation, functions, and construction of selected radiac equipment used for the detection of radiation; characteristics and hazards of radioactive materials; problems associated with nuclear accidents and incidents; NET operations,

Course Objectives Participants will:
a. Describe basic nuclear physics, biological effects and protection from exposure to radiation.
b. Identify potential hazards and explain how to protect oneself from these hazards.
c. Describe federal response plans and capabilities.
d. Demonstrate the use of radioactivity monitoring instruments.
e. Explain dosimetry and the use of a dosimeter.
f. Identify principles for collecting airborne radioactivity samples.
g. Demonstrate accident patterns and plotting.
h. Demonstrate the ability to properly don anti-C clothing and procedures for cleaning, inspecting, and proper wear of respiratory protection.
i. Demonstrate the setup and operation of a contamination control station.

NBC Areas of Competency 6, 7, 8, 12, 14, 17, 18

Target Audience
Military/Civilian/Both Military
Emergency Responder Group Other (Nuclear Emergency Team Members)
Emergency Responder Levels Operations Level, Technical/Specialist Level

Type of Instruction
Medium Classroom, Practical Exercise, Video
Gov/Contractor Government (Delivered by)

Course Location/ Facility Dependent No

POC CWO Larry Grisham
Address Defense Nuclear Weapons School, 3416th Technical Training Squadron, Kirtland AFB, New Mexico 87117-5000

Phone Number (505) 853-0190

Prerequisites Membership on a Nuclear Emergency Team; SECRET clearance; field uniform w/protective mask; calculator (Optional).

Comments A mobile training team version of this course is available. Does not cover the chemical/biological components.

Course Title **Nuclear Hazards Training Course**

Course Sponsor Defense Nuclear Weapons School (DNWS)
Course Description A 4 day course which provides training for medical service officers and enlisted personnel in the organization and function of nuclear weapon accident response. An historical overview of selected nuclear weapons accidents and incidents; hazards related to weapons accidents; response organizations and specialized capabilities; medical aspects and procedures for radiation accident victims; operation of radiation detection equipment, monitoring procedures, and associated protective measures.

Course Objectives Participants will:

- a. Explain the structure of the atom, the type of radiation, and their origin.
- b. Describe the physical principles of nuclear weapons.
- c. Identify potential hazards and explain how to protect oneself from hazards present at a nuclear weapons accident site.
- d. Discuss the history of nuclear accidents and incidents.
- e. Describe federal response plans and capabilities.
- f. Explain the medical aspects of exposure to radiation.
- g. Demonstrate the ability to properly don anti-C clothing and set up a contamination control station.
- h. Demonstrate the proper use of respiratory protection.
- i. Demonstrate the use of radioactivity monitoring and sampling equipment.
- j. Explain procedures for handling patients contaminated with radioactivity.
- k. Describe pre-hospital and hospital response to a nuclear accident.

NBC Areas of Competency 2, 6, 7, 8, 11, 13, 14, 18, 20, 23

Target Audience

Military/Civilian/both	Military
Emergency Responder Group	Emergency Medical Services (e.g., EMT, Paramedic), Emergency Room Doctors/Nurses
Emergency Responder Levels	EMS Level

Type of Instruction

Medium	Classroom, Practical Exercise, Video
Gov/Contractor	Government (Delivered by)

Course Location/
Facility Dependent No

POC CWO Larry Grisham
Address Defense Nuclear Weapons School, 3416th Technical Training Squadron, Kirtland AFB,
New Mexico 87117-5000

Phone Number (505) 853-0190

Prerequisites None

Comments Field uniform and protective mask required. Does not cover the chemical/biological components.

Course Title **Operational Radiation Safety**

Course Sponsor U.S. Army Chemical School

Course Description The Operational Radiation Safety Course contains 40 hours of formal training on general radiation safety procedures. It includes the following topics: properties of nuclear and machine radiation; detection and measurement of radiation; principles and practice of radiation shielding techniques; RADIAC instrumentation (including operation, calibration, and limitations), and applicable Federal and Army regulations for management of radiation sources.

Course Objectives Course terminal learning objectives include Fundamentals of Nuclear Radiation; Radiation Quantities and Units; Biological effects of Ionizing Radiation; Basics of Radiation Detection; RADIAC Instruments; Shielding of Ionizing Radiation; Exposure Guidance; Transportation of Radioactive material; Radiation Survey/ Monitoring and Wipe/Leak Test; Identification and Handling of Radioactive Items; Safe Handling, Storage, Control, and Reporting of Radioactive Material; Depleted Uranium; and Radiation Accidents and Decontamination. Upon completion of the course, an individual is qualified to perform the duties of a local radiological protection officer for specific items of radioactive material (i.e., moisture density gauge).

NBC Areas of Competency 1-9, 11, 13, 16-18, 25, 26 (all for the Nuclear Component Only)

Target Audience

Military/Civilian/both	Both
Emergency Responder Group	Any group having detection equipment.
Emergency Responder Levels	Operations Level and Technician Level.

Type of Instruction

Medium	Lecture and practical exercise.
Gov/Contractor	Government

Recommended Class Size 25-30

Course Location/ Facility Dependent Yes. (Due to radiation lab requirements)

Course Availability Within 30 days

Cost (Does not include billeting) \$362 per person & travel, lodging & meal costs

POC Mr. Michael Sheheane

Address U.S. Army Chemical School, ATTN: ATZN-CMN-L, Ft. McClellan, AL 36205

Phone Number (205) 848-4814

Comments Does not address the Chemical/Biological components. A minimum of 70% is required to pass the course.

Course Title **Radiological Accident Command Control and Coordination (RAC3)**

Course Sponsor Defense Nuclear Weapons School (DNWS)
Course Description Provides training in responsibilities and problem resolutions involved in a nuclear weapon accident response:
a. Lessons learned from past accidents.
b. Federal, state, and local agency responsibilities.
c. Key issues specific to a nuclear weapon accident.
Culminates in a practical field exercise--you encounter realistic problems that occur during a nuclear weapon accident response. Length: 5 days

Course Objectives Participants will:
a. Identify various potential hazards associated with nuclear accidents.
b. Discuss the history of nuclear accidents and the lessons learned.
c. Identify DOD nuclear accident response capabilities.
d. Identify legal issues and problems associated with a nuclear accident.
e. Identify DOE nuclear accident response capabilities.
f. Identify hazard assessment information.
g. Identify FEMA nuclear accident response capabilities.
h. Identify security issues affecting the Commander's Staff.
i. Identify state and local nuclear accident response capabilities.
j. Discuss public affairs issues affecting the Commander's Staff.
k. Discuss medical issues affecting the Commander's Staff.
l. Demonstrate the ability to resolve nuclear accident scenarios.

NBC Areas of Competency 6, 7, 11, 14, 17, 18, 21, 26

Target Audience
Military/Civilian/both Military, DOD Civilian, Civil Authorities
Emergency Responder Group Other (Senior Military Officers)
Emergency Responder Levels Senior Management Level

Type of Instruction
Medium Classroom, Practical Exercise, Videos
Gov/Contractor Government (Delivered by)

Course Location/ Facility Dependent No

POC CWO Larry Grisham
Address Defense Nuclear Weapons School, 3416th Technical Training Squadron, Kirtland AFB, New Mexico 87117-5000

Phone Number (505) 853-0190
Prerequisites Commissioned officers, 0-4 and above; DOD civilians, GS-12 and above. SECRET clearance.

Comments A mobile training team version of this course is available. A field uniform and protective mask are required. Does not cover the chemical/biological components.

Course Title **Toxic Aid Automated Training**

<u>Course Sponsor</u>	DOD/ERDEC
<u>Course Description</u>	This course is a multimedia toxic aid software delivered course for both orientation and refresher training of chemical surety laboratory workers. It provides training information on both chemical and surety material decontamination and toxic aid information. The purpose of the training package is to provide ERDEC with a software alternative to the current classroom instruction and to also provide the government with a mechanism for determining work proficiency in critical areas. The training program combines full motion video with several interactive sessions. It takes about an hour to complete the training and the testing. If an employee feels they have the knowledge to successfully complete the test without the training, they can complete the program in under 15 minutes. There is a scaled down version (without the multimedia) of the toxic aid software program available.
<u>Course Objectives</u>	Student will be able to successfully handle a lab scale (i.e., chemical agent spill).
<u>NBC Areas of Competency</u>	9, 13
<u>Target Audience</u>	
Military/Civilian/both	Both (Usually Surety Operators in Chemical Agent Labs)
Emergency Responder Group	Firefighter/HAZMAT (Local Fire Department).
Emergency Responder Levels	Awareness, Operations Level
<u>Type of Instruction</u>	
Medium	Classroom and computer based.
Gov/Contractor	Government
<u>Recommended Class Size</u>	Greater than 100
<u>Course Location/ Facility Dependent</u>	No
<u>Course Availability</u>	Immediately
<u>Cost (Does not include billeting)</u>	No Charge
<u>POC</u>	Ray Mastnjak or Shirley Jones
<u>Address</u>	Technical Director, ERDEC, ATTN: SCBRD- ODR-S, Aberdeen Proving Ground, MD 21010
<u>Phone Number</u>	(410) 671-2471, 671-4411, 671-2493
<u>Comments</u>	Experience in developing 1st hand chem safety & health training in interactive format. Could develop tailored training for 1st Responders. Combination of & CD ROM for practice. All U.S. Army Technical Escort Unit (TEU) personnel, supervisors, have taken this course. Requires video cassette player and computer with CD ROM. Does not cover the nuclear/biological components.

Course Title

Toxic Chemical Training For Medical Support Personnel

Course Sponsor

DOD/CBDCOM

Course Description

Four and a half day course in Edgewood, MD, is designed to prepare the medical staff at chemical weapons depots to more effectively handle their responsibilities. Includes chemical agent chemistry, biological effects, signs and symptoms of exposure, and treatment. Also has extensive information on disaster planning, coordination and training. Has evolved to include offpost Chemical Stockpile Emergency Preparedness Program (CSEPP) activities and

Course Objectives

- a. Understand chemical agents, their toxic effects and treatment.
- b. Understand and be able to conduct/supervise patient decontamination.
- c. Be able to complete Chemical Accident and Incident Response and Assistance (CAIRA)/Disaster Planning.
- d. Understand and comply with regulatory requirements.
- e. Understand and be able to participate in CAIRA Planning and Response.

NBC Areas of Competency

2, 3, 9, 13, 19-23, 25 and 26

Target Audience

Military/Civilian/both	Both
Emergency Responder Group	Emergency Medical Services (EMT, Paramedic).
Emergency Responder Levels	EMS

Type of Instruction

Medium	Classroom and practical exercise.
Gov/Contractor	Government

Recommended

Class Size:

Less Than 50

Course Location/

Facility Dependent

No

Course Availability

Within 90 days

Cost (Does not

include billeting)

\$20,000 per course

POC

LTC Richard Kramp

Address

Cdr, CBDCOM, Attn: AMSCB-RA, Aberdeen Proving Ground, MD 21010-5423

Phone Number

(410) 671-3163

Comments

Does not cover the nuclear/biological components.

Course Title **Preparing for and Managing the Consequences of Terrorism**

Course Sponsor National Guard Bureau

Course Description This course is designed to teach the strategic approach to managing terrorism and identifies key levels of government activity involved in the preparation for, response to, and recovery of Weapons of Mass Destruction. In addition, the course will review the history of terrorism as well as examine prominent extremists groups, and their influence on modern day domestic terrorism. It will also explore known terrorism 'leadership' profiles, their motivations and methods of operation, as well as the financing of terrorism. The recommended course length is four and one half days (40 academic hours).

Course Objectives

- a. *Understand* Weapons of Mass Destruction(WMD)
- b. *Understand* the Strategic Approach to Managing Terrorism
- c. Conducting Risk and Vulnerability Assessments

NBC Areas of Competency 2a, 3, 4, 5, 10, 11, 16, 21, 25, and 26

Target Audience

Military/Civilian/both	Both
Emergency Responder Group	Firefighter/HAZMAT, Incident Commanders
Emergency Responder Levels	Awareness Level, Operational Level

Type of Instruction

Medium	Classroom and practical exercise.
Gov/Contractor	Government

Recommended

Class Size Less than 55 (40-55)

Course Location/
Facility Dependent Course will be conducted at locations throughout the United States. (Scheduled courses can be found on the www at "NICI.ORG".

Course Availability Five to six iterations per year (see web site for details)

Cost \$95.00 registration fee (covers all lunches and two evening Social events). All other costs (Travel, Lodging and other meals are the responsibility of the student)

POC Major Mark Johnson

Address National Interagency Civil/Military Institute
Camp San Luis Obispo CA.
93403-4209

Phone Number (805) 782-6746 Fax: (805) 782-6745

Prerequisites Involvement in organizations that plan for, mitigate, respond to and promote the recovery of acts of terrorism.

Comments Course is conducted entirely in a classroom setting with group involvement during the conduct of the scenario driven practical applications.





DEPARTMENT OF ENERGY (DOE)

Course Title **Air Sampling for Radioactive Materials**

<u>Course Sponsor</u>	DOE
<u>Course Description</u>	This one week, laboratory-oriented course introduces participants to the basic theories and mechanics of air sampling for radionuclides. Approximately 40% of the time is spent collecting and analyzing air samples; the remainder is devoted to lectures. Lecture and laboratory topics include: Particle Sizing, Stack Sampling, Instrument Calibration, Air Sampling Equations, Environmental Air Sampling, Air Sampling in the Workplace, Health Physics Principles, and Characteristics of Absorbers, Adsorbers, and Filters.
<u>Course Objectives</u>	At the close of this course, participants will be able to: a. Collect an environmental particulate air sample. b. Perform an analysis of the collected air sample. c. Determine the air flow patterns within a given area.
<u>NBC Areas of Competency</u>	8, 14, 17, 18
<u>Target Audience</u>	
Military/Civilian/both	Both
Emergency Responder Group	Not intended for any of these personnel.
Emergency Responder Levels	Technician/Specialist
<u>Type of Instruction</u>	
Medium	Classroom, paper based, video and practical exercise.
Gov/Contractor	Contractor
<u>Recommended Class Size</u>	Less than 20
<u>Course Location/ Facility Dependent</u>	Yes. (Due to the amount of laboratory equipment required)
<u>Course Availability</u>	Immediately
<u>Cost (Does not include billeting)</u>	\$1,495 per person
<u>POC</u>	Ms. Jeanne McBride, Group Leader
<u>Address</u>	Health Physics Training Programs, Lab Road Facility, Oak Ridge Institute for Science and Education, Oak Ridge, TN 37831-0117
<u>Phone Number</u>	(423) 576-9617
<u>Comments</u>	Does not cover the chemical/biological components.

Course Title **ALARA for Design and Operations Engineers - Instructor Manual**

Course Sponsor DOE

Course Description This package is designed to introduce engineers to the fundamentals of radiation and contamination reduction when designing or modifying plant facilities or operations. Key areas of importance include the history and philosophy of ALARA (As Low As Reasonably Achievable); types of radiation; selected topics related to radiation protection; the five basic ALARA principles; applications of ALARA in design; and an example of an ALARA design and operations review program. The package was developed by the DOE Training Resource and Data Exchange Network. It includes a full set of instructor and participant materials, exercises, an evaluation form, and an examination. (Course is Self-paced)

Course Objectives There are two "terminal" objectives for the course:

- a. Participants will demonstrate without reference and with 80% accuracy, their knowledge of the ALARA philosophy, types of radiation, seven topics concerning ALARA, and the principles of ALARA used to minimize radiation and contamination.
- b. Participants will demonstrate the application of ALARA principles in design by actively participating in the group exercises in class.

There are also separate enabling objectives for each module.

NBC Areas of Competency 6, 8

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Not intended for any of these personnel.
<i>Emergency Responder Levels</i>	Awareness Level

Type of Instruction

Medium	Classroom, paper based and practical exercise.
Gov/Contractor	Contractor

Recommended Class Size Less than 20 (with small groups of 4)

Course Location/ Facility Dependent No

Cost (Does not include billeting) TBD

POC Address Ms. Cynthia Schenley, Radiation Protection Specialist Interest Group Coordinator
DOE (TRADE), Education and Training Division, Lab Road Facility, Oak Ridge Institute for Science and Education, Oak Ridge, TN 37831-0117

Phone Number (423) 576-0339

Comments Instructor Manual available upon request for use by your own in-house instructors. Does not cover the chemical/biological components.

Course Title **Applied Health Physics**

Course Sponsor DOE

Course Description This intensive, five-week training course consists of lectures and laboratory exercises. Participants spend approximately 40% of their time performing laboratory exercises using radiation detection and measurement equipment. Laboratory exercises complement the health physics principles learned in the lectures. Lecture and laboratory topics include: Radiation Physics, Radiation Detection and Measurement Techniques, Radiation Dosimetry, Radiation Biology, Assay Techniques, Shielding and Facility Design, Radioactive Materials Control Techniques, Health Physics Principles, and Environmental Monitoring.

Beginning with fundamental principles, each topic progresses to an advanced level. Instruction is fortified with weekly examinations and problem sessions. A final examination is given at the end of the course.

Course Objectives At the close of this course, participants will be able to demonstrate a working level knowledge of:

- a. Radiological controls, practices, procedures, and theory.
- b. Basic radiation detection methods and principles.
- c. Contamination control, practices, and procedures.
- d. ALARA principles, job planning, and job performance.
- e. The basic construction, operation, and theory of containment and confinement systems.
- f. Various radiation detection, criticality, and contamination monitoring systems and components.
- g. The engineered radiological controls and design criteria.

NBC Areas of Competency 1, 2, 6, 7, 8, 9, 12, 14, 17, and 18

Target Audience

Military/Civilian/both	Both
Emergency Responder Group	Not intended for any of these personnel.
Emergency Responder Levels	Technician/Specialist Level

Type of Instruction

Medium	Classroom, paper based, video and practical exercise.
Gov/Contractor	Government

Recommended

Class Size Less than 20

Course Location/
Facility Dependent Yes. (Due to the amount of laboratory equipment required)

Course Availability Immediately

Cost (Does not
include billeting) \$7,475 per person

POC Ms. Jeanne McBride, Group Leader

Address Health Physics Training Program, Lab Road Facility, Oak Ridge Institute for Science and Education, Oak Ridge, TN 37831-0117

Phone Number (423) 576-9617

Comments Does not cover the chemical/biological components.

Course Title

Crisis Management Program for Senior Officials

Course Sponsor

DOE

Course Description

The Crisis Management Program for Senior Officials Course is designed to provide senior officials who function as crisis managers with a basic knowledge of their duties and responsibilities in planning and preparing for a crisis. The 1/2 day program is to be administered by emergency preparedness coordinators/trainers at their own facilities. The program package includes a brochure, a videotape, an assessment tool, presentation and instructor materials for 5 senior management briefing, and suggested follow-up activities following the briefing. The topics for the briefing are:

1. Crisis Management in Perspective.
2. Phases of a Crisis.
3. Strategic Role of the Crisis Manager.
4. Constraints and Consequences of a Crisis.
5. Crisis Management Stress.

This package is a product of the Training Resources and Data Exchange Network at DOE.

Course Objectives

Program objectives are as follow: (Note these are briefing objectives and therefore not stated in performance terms.)

- a. Explain how crisis management differs from day-to-day management: spectrum of decision making, decision making differences, strategic perspective, need to plan for crisis management, functions of an Emergency Operations Center (EOC), and need for operational organizational relationships.
- b. Provide an understanding of the evolution and phases of a crisis, potential crisis categories, different phases of a crisis, and the importance of evaluation after a crisis.
- c. Develop an understanding of the crisis manager's strategic role: relationship with the media, responsibilities of a crisis manager, information required to make decisions, communications channels needed, crisis management skills, and the media and the media spokesperson.
- d. Enhance understanding of how important and difficult the role of a decision maker is during a crisis: constraints associated with decision making, major critical decision points, and major consequences of inappropriate action during a crisis.
- e. Provide knowledge of stress and stress symptoms: define stress, describe symptoms, discuss techniques to manage stress, and discuss post traumatic stress.

NBC Areas of Competency

3,4, 5

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Public Officials.
Emergency Responder Levels	Senior Management Level

Type of Instruction

Medium	Classroom, paper based, video and practical exercise.
Gov/Contractor	Government

Recommended

Class Size Less than 20 (with small groups of 4)

**Course Location/
Facility Dependent** No

Course Availability Immediately

**Cost (Does not
include billeting)** \$10,000 per course

POC Mr. Marcus Weseman, Program Director

Address Technical and Operations Support Programs, Lab Road Facility, Oak Ridge Institute for
Science and Education, Oak Ridge, TN 37831-0117

Phone Number (423) 576-3420

Course Title

Handling of Radiation Accidents by Emergency Personnel

Course Sponsor

DOE Radiation Emergency Assistance Center and Training Site (REAC/TS)

Course Description

This course is for physicians, nurses, and physician assistants who may be called upon to provide emergency medical service to a radiation accident victim. This course emphasizes the practical aspects of handling a contaminated victim by discussing the fundamentals of radiation, how to detect and measure it, how to prevent the spread of contamination, how to reduce the radiation dose to the victim and attending personnel, and the role of the medical/health physicist in caring for contaminated accident victims. This course is 3 1/2 days in length.

Course Objectives

- a. Discuss the concepts of radiation physics and radiobiology that are important in the emergency care of the radiation accident victim.
- b. Select and prepare an appropriate treatment/decontamination area within the hospital and determine staff and patient needs.
- c. Describe contamination control techniques that can be utilized during the emergency care of contaminated radiation accident victims.
- d. Select and correctly use radiological instruments to detect and measure radiation in a simulated contamination incident.
- e. Plan and conduct a radiation accident drill.

NBC Areas of Competency

8a, 13, 19, 20, 21 and 22

Target Audience

Military/Civilian/both

Both

Emergency Responder Group

Firefighter/HAZMAT, Emergency Medical Services (EMS, Paramedic),
Emergency Room Technician, & First Responder Trainers.

Emergency Responder Levels

Technician/Specialist Level.

Type of Instruction

Medium

Classroom, paper based, and practical exercise.

Gov/Contractor

Contractor

Recommended

Class Size

Less than 20

Cost (Does not

include billeting)

\$75 per person

POC

Ms. Gail Mack

Address

(REAC/TS) - Vance Road Facility, Oak Ridge Institute for Science and Education,
Oak Ridge, TN 37831-0117

Phone Number

(423) 576-3132

Comments

Does not address the chemical/biological components.

Course Title **Hazardous Materials Incident Response Operations (HAZWOPER)**

Course Sponsor DOE
Course Description This course is designed for personnel who are involved with the investigation and remediation of uncontrolled hazardous waste sites. It is designed for personnel who respond to accidents or releases of hazardous materials and provides information needed to meet the requirements of 29 CFR 1910.120, "Hazardous Waste Operations and Emergency Response". It is also designed so that personnel will be more knowledgeable in hazardous waste site operations, team functions, personnel health and safety, and field monitoring equipment. This course is 40 hours in length.

- Course Objectives**
- a. Identify methods and procedures for recognizing, evaluating, and controlling hazardous substances.
 - b. Identify concepts, principles, and guidelines to properly protect site and response personnel.
 - c. Discuss regulations and action levels to ensure the health and safety of the workers.
 - d. Discuss the fundamentals needed to develop organizational structure and Standing Operating Procedures (SOPs).
 - e. Demonstrate the selection and use of dermal and respiratory protective equipment and demonstrate the use and calibration of direct-reading air monitoring equipment.

NBC Areas of Competency 1, 2a, 2b, 5, 6, 7, 8, 9, 10, 10a, 11, 13, 18, 22, 25

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Firefighter/HAZMAT, Law Enforcement, Incident Command.
Emergency Responder Levels	Awareness Level, Operations Level

Type of Instruction

Medium	Classroom, paper based, video and practical exercise.
Gov/Contractor	Government

Recommended Class Size Less than 20

Course Location/ Facility Dependent No

Course Availability Within 30 days

Cost (Does not include billeting) TBD

POC Address Fairy White, DOE/HR-/FORS/L'Enfant, Rm. 710
Office of Human Resources and Administration, U.S. Department of Energy, 1000 Independence Avenue, SW, Washington, DC 20585

Phone Number (202) 426-1534

Comments Course requires video cassette player

Course Title **Health Physics for the Industrial Hygienist**

Course Sponsor DOE

Course Description This one-week, laboratory/lecture course covering basic radiation concepts enhances the understanding of industrial hygiene professionals related to environmental/occupational radiation protection, safety, measurements, and assessment. Lectures include a description of radiation sources, interactions, detection, and biological effects. Laboratory exercises stress radiation detection and survey techniques using portable instrumentation.

Course Objectives At the close of this course, participants will be able to demonstrate knowledge of:

- a. Radiological controls, practices, procedures, and theory.
- b. Basic radiation detection methods and principles.
- c. Contamination control, practices, and procedures.
- d. ALARA principles, job planning and job performance.

NBC Areas of Competency 2, 2b, 6, 7, 8, 9, 12, 14, 17, and 18

Target Audience

Military/Civilian/both	Both
Emergency Responder Group	Not Intended for any of these groups.
Emergency Responder Levels	Awareness Level, Operations Level, EMS Level

Type of Instruction

Medium	Classroom, paper based and practical exercise.
Gov/Contractor	Contractor

Recommended

Class Size Less than 20

Course Location/
Facility Dependent Yes. (Due to the amount of laboratory equipment)

Course Availability Immediately

Cost (Does not
include billeting) \$1,495 per person

POC Ms. Jeanne McBride, Group Leader
Address Health Physics Training Programs, Lab Road Facility, Oak Ridge Institute for Science and Education, Oak Ridge, TN 37831-0117

Phone Number (423) 576-9617

Comments Does not address the chemical/biological components.

Course Title

Health Physics in Radiation Accidents

Course Sponsor

DOE Radiation Emergency Assistance Center and Training Site (REAC/TS)

Course Description

This course is for health physicists and radiation protection technologists who may be called upon to respond to accidents involving radioactive materials and injury to personnel. The major topics covered are radiological emergency procedures and the role of the health physicist in a medical environment. This course is 4 1/2 days in length.

Course Objectives

- a. Explain the role of the health physicist in assisting medical/paramedical personnel during emergency or long-term care of the radiation accident victim.
- b. List the components of pre-hospital and hospital emergency planning and describe any modifications required for radiation accident response.
- c. During a simulated radiation accident exercise, demonstrate the ability to advise a medical response team regarding contamination control, protective actions, radioassay results, and the efficiency of decontamination procedures.
- d. Demonstrate the ability to identify "unknown" radioactive contaminants during a radiation exercise.
- e. Name sources of assistance that are available during real or presumed radiation accidents.

NBC Areas of Competency

1-4, 11, 14, 17, 25 and 26

Target Audience

Military/Civilian/both

Both

Emergency Responder Group

Emergency Medical Services (EMS, Paramedic, Emergency Room Technician, Doctors and Nurses) & First Responder Trainers.

Emergency Responder Levels

Technician/Specialist Level.

Type of Instruction

Medium

Classroom, paper based, and practical exercise.

Gov/Contractor

Contractor

Recommended

Class Size

Less than 20

Course Location/

Facility Dependent

No

Course Availability

Within 30 days

Cost (Does not

include billeting)

\$90 per person

POC

Ms. Gail Mack

Address

(REAC/TS) - Vance Road Facility, Oak Ridge Institute for Science and Education, Oak Ridge, TN 37831-0117

Phone Number

(423) 576-3132

Comments

Does not address the chemical/biological components.

Course Title **Introduction to Radiation Safety**

Course Sponsor DOE
Course Description This one week, laboratory/lecture course introduces the health concerns and safety procedures required for users of radionuclides. Lectures include a description of radiation sources, interactions, detection, and biological effects. Laboratory exercises stress radiation detection and measurement techniques using both fixed and portable instrumentation.

Course Objectives At the close of this course, participants will be able to demonstrate knowledge of:
a. Radiological controls, practices, procedures, and theory.
b. Basic radiation detection methods and principles.
c. Contamination control, practices, and procedures.
d. ALARA principles, job planning, and job performance.

NBC Areas of Competency 2, 6, 7, 8, 17

Target Audience
Military/Civilian/both Both
Emergency Responder Group Not Intended for any of these groups.
Emergency Responder Levels Awareness Level, Operations Level, EMS Level

Type of Instruction
Medium Classroom, paper based and practical exercise.
Gov/Contractor Contractor

Recommended Class Size Less than 20

Course Location/Facility Dependent Yes.(Due to the amount of laboratory equipment)

Course Availability Immediately

Cost (Does not include billeting) \$1,495 per person

POC Ms. Jeanne McBride, Group Leader
Address Health Physics Training Programs, Lab Road Facility, Oak Ridge Institute for Science and Education, Oak Ridge, TN 37831-0117

Phone Number (423) 576-9617

Comments Does not address the chemical/biological components.

Course Title **Medical Planning and Care in Radiation Accidents**

Course Sponsor DOE Radiation Emergency Assistance Center and Training Site (REAC/TS)
Course Description This course is designed for physicians and physician assistants and presents an advanced level of information on the diagnosis and treatment of acute local and total body radiation exposure, internal and external contamination, combined injuries, and multi-casualty incidents involving ionizing radiation. This course is 4 1/2 days in length.

- Course Objectives
- a. Discuss the concepts of radiation physics and radiobiology that are of importance in medical planning and care of the radiation accident victim.
 - b. Given hypothetical situations, select appropriate treatment protocols for:
a patient suffering the acute radiation syndrome,
a patient with a partial body radiation injury,
an externally contaminated, injured patient,
a patient internally contaminated with radioactive material.
 - c. Given a hypothetical radiation accident situation, correctly define and assess the public health problem and determine the priorities in medical management.
 - d. List the essential elements of a hospital's response plan for radiation emergencies and describe ways of adapting disaster plans for multiple casualties in a radiation emergency.
 - e. Discuss the impact of human psychology on disaster response.

NBC Areas of Competency 21, 25 and 26

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Emergency Medical Services (EMS, Paramedic, Emergency Room Technician, Doctors and Nurses) & First Responder Trainers.
Emergency Responder Levels	EMS Level.

Type of Instruction

Medium	Classroom, paper based, and practical exercise.
Gov/Contractor	Contractor

Recommended Class Size Less than 20

Cost (Does not include billeting) \$90 per person

POC Ms. Gail Mack
Address (REAC/TS) - Vance Road Facility, Oak Ridge Institute for Science and Education,
Oak Ridge, TN 37831-0117

Phone Number (423) 576-3132

Comments Does not address the chemical/biological components.

Course Title **Occupational Health in Nuclear Facilities**

Course Sponsor DOE Radiation Emergency Assistance Center and Training Site (REAC/TS)
Course Description This course is for physicians, nurses, physician assistants, and others who provide occupational health care to employees of government nuclear industries. This course presents information on basic radiation sciences, health surveillance and evaluations, on-site emergency management of injuries, and medical implications of chemical, physical, biological, social, and psychological stresses on the ability to work. Additional topics include interdepartmental relationships and medical, legal, and ethical issues of concern to health professionals in nuclear facilities. This course is 4 1/2 days in length.

Course Objectives

- a. Select and correctly use a survey instrument to detect and measure radioactivity.
- b. Describe the role of the physician/nurse in accident investigation and litigation.
- c. Given a simulated single or multiple casualty accident involving radioactive materials in the industrial setting:
 - triage and administer emergency aid at the accident scene, while limiting the spread of contamination.
 - decontaminate and treat the injured victims.
 - determine the need for and correctly select the appropriate therapy for patients sustaining internal contamination with radioactive materials.
 - counsel the involved workers regarding the long-term medical consequences of the radiation exposure.

NBC Areas of Competency 3, 13, and 18-23

Target Audience

Military/Civilian/both	Both
Emergency Responder Group	Emergency Medical Services (EMS, Paramedic, Emergency Room Technician, Doctors and Nurses) & First Responder Trainers.
Emergency Responder Levels	Awareness and Operations Level.

Type of Instruction

Medium	Classroom, paper based, and practical exercise.
Gov/Contractor	Contractor

Recommended Class Size Less than 20

Cost (Does not include billeting) \$90 per person

POC Ms. Gail Mack
Address (REAC/TS) - Vance Road Facility, Oak Ridge Institute for Science and Education, Oak Ridge, TN 37831-0117
Phone Number (423) 576-3132

Comments Meets radiological first aid procedures and principles of triage requirements. Does not address the chemical/biological components.

Course Title

Radioactive Material Basics for Emergency Responders

Course Sponsor

DOE

Course Description

This course is designed to provide emergency first response personnel with a clear understanding of the knowledge and application of radiation protection principles. The purpose of the course is to provide basic information on radioactive materials for emergency responders who would respond to a transportation incident involving radiological materials. This course will explain what radioactive materials are, what the different types of radiation are, common terms, definitions, where you might encounter them, how radioactive materials could potentially harm you, and four steps you can use to minimize your risk at an incident scene. (Self-study: 2 hours, Facilitated: 8 hours) This course is currently undergoing revisions following pilot testing. The following modules are anticipated:

1. Putting Radioactive Materials into Perspective.
2. Understanding What Radioactive Materials Are.
3. Detecting, Measuring, and Assessing the Hazards of Radioactive Materials.
4. Identifying Radioactive Materials in Transportation.
5. Responding to the Radioactive Material Incident.
 - a. Recognize radioactive materials and identify four common types.
 - b. Define common radiological terms.
 - c. Recognize the hazards associated with the different types of radiation.
 - d. Identify the steps to maximize your safety and effectiveness in a transportation incident.
 - e. Be confident in recognizing and identifying radiological materials in transportation by their placards, labels, and shipping papers.

Course Objectives

NBC Areas of Competency

1, 2, 2a, 6-8, 9, 12, 14, 15, 17 and 18

Target Audience

Military/Civilian/both

Both

Emergency Responder Group

Firefighter/HAZMAT, Law Enforcement, Incident Commanders & First Responder Trainers.

Emergency Responder Levels

Awareness Level, Operations Level, EMS Level

Type of Instruction

Medium

Classroom, paper based, video, practical exercise, teleconference or combination.

Gov/Contractor

Contractor

Recommended

Class Size

Less than 20

Course Location/

Facility Dependent

No

Course Availability

Within 3 months

Cost (Does not

include billeting)

\$1,000 per course

POC

Ms. Ella McNeil

Address

DOE/EM-76/GTN/Cloverleaf Bldg., Rm. 1066, U .S. Department of Energy, 1000 Independence Avenue, SW, Washington, DC 20585

Phone Number

(301) 903-7284

Comments

Requires video cassette player. Does not address the chemical/biological components.

Course Title **Radiological Emergency Response**

Course Sponsor DOE

Course Description This one week, laboratory/lecture course introduces the health concerns and safety procedures required for radiological emergency response. Lectures include a description of radiation sources, interactions, detection, biological effects, and emergency response. Participants spend approximately 50% of their time in accident drills which are based on realistic scenario/simulations. Lecture and laboratory topics include: Historical Overview of Radiation Accidents, Radiation Detection, Contamination Surveys, Radiation Protection, Radiation Biology, Regulatory Guidance, Emergency Plans, Emergency Response, and Fires and related emergencies.

Course Objectives

- Knowledge of basic radiation detection methods and principles.
- Knowledge of contamination control, practices, and procedures.
- A working level knowledge of health physics and radiation protection to oversee emergency activities and provide guidance in mitigating emergencies.
- A working level knowledge of decontamination procedures.

NBC Areas of Competency 2-9, 11-20, 22-26

Target Audience

Military/Civilian/both	Both
Emergency Responder Group	Firefighter/HAZMAT, Emergency Medical Services (EMT, Paramedic) Law Enforcement, and First Responder Trainers.
Emergency Responder Levels	Awareness Level, Operations Level, Technician/Specialist Level

Type of Instruction

Medium	Classroom, paper based, video, and practical exercise.
Gov/Contractor	Contractor

Recommended

Class Size Less than 20

Course Location/
Facility Dependent Yes.(Due to the amount of laboratory equipment required)

Course Availability Immediately

POC Ms. Jeanne McBride, Group Leader
Address Health Physics Training Programs, Lab Road Facility, Oak Ridge Institute for Science and Education, Oak Ridge, TN 37831

Phone Number (423) 576-9617

Comments Training materials available; course no longer offered. Does not cover the chemical/biological components.

Course Title

Transportation Public Information Training

Course Sponsor

DOE

Course Description

The Transportation Public Information training is a preparation course for U.S. Department of Energy (DOE) and stakeholder personnel at the state, Tribal and local levels who need to communicate with the public concerning transportation activities. The training has proven valuable to personnel concerned with public outreach and information, transportation management, emergency management, public safety, radiological incident response, and emergency medical services.

The overall goal of the training is to prepare participants to effectively plan for, carry out, and coordinate public information activities in conjunction with safe, routine transportation activities and with transportation incidents involving radioactive materials. Emphasis is placed on ongoing public communication and participation as vital to the success of public information efforts should an incident occur. (Course length not given)

Course Objectives

Module 1: DOE Radiological Materials Transportation Programs

At the end of Module 1, participants will be able to:

- 1.1 Describe key components of the DOE approach to ensuring safe radiological materials transportation activities.
- 1.2 Describe DOE preparedness for a response to radiological materials transportation incidents, including national assets available for assistance.
- 1.3 Discuss issues affecting the communication, coordination, and cooperation required in working with other agencies and jurisdictions for planning non-emergency and emergency transportation activities.
- 1.4 Identify information resources available to assist in transportation public communication activities.

Module 2: Principles of Public Communications and Participation

At the end of Module 2, participants will be able to:

- 2.1 Discuss key components of effective communication planning.
- 2.2 Discuss public concerns and perceptions about the transportation of DOE radioactive materials and how to address them.
- 2.3 List at least five specific ways to earn trust and build credibility.
- 2.4 List at least three components of an effective informational presentation about the safety and risk of radiological materials and their transport.
- 2.5 List at least three techniques for working with the media during a shipping campaign or transportation incident.
- 2.6 List the three components of an effective answer and give at least one example answer to a tough question using the three-part answer presented in the class.
- 2.7 List at least three techniques for diffusing hostility.

Module 3: Simulation Exercise

At the end of Module 3, participants will be able to:

- 3.1 Given a scenario for a hypothetical planned shipping campaign, apply public communication and participation principles to the delivery of an informational presentation and a simulated question and answer session.
- 3.2 Given a scenario for a hypothetical transportation incident, apply public communication principles to the development of a news release and a simulated media interview.
- 3.3 Discuss issues related to preparing for future shipments following a transportation incident.

NBC Areas of Competency

3, 4, 5, 11, 16 and 17a

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Firefighter/HAZMAT, Emergency Medical Services (EMS, Paramedic), Emergency Room Technician, & First Responder Trainers.
Emergency Responder Levels	Awareness Level, Operations Level, EMS Level, & Senior Management Levels.

Type of Instruction

Medium	Classroom, paper based, video, and practical exercise.
Gov/Contractor	Contractor

Recommended

Less than 50

Class Size

Course Location/

Facility Dependent

No

Course Availability

Immediately

Cost (Does not

include billeting)

\$ 5,000-8,000 per course, (Depending on location)

POC

Ms. Judith Holm

Phone Number

(505) 845-4767

Comments

Course requires video cassette player for presentation. Does not address the chemical/biological components





**DEPARTMENT OF HEALTH AND HUMAN SERVICES
(DHHS)**

Course Title **Air Sampling for Toxic Substances**

Course Sponsor DHHS-NIOSH/NY-NJ Educational Resource Center
Course Description Students will be trained to conduct area and personal monitoring for toxic substances. Hands-on practice provides the student with training in air sampling methods, equipment, strategies and interpretation of results. Length: 2 Days

Course Objectives Student will understand sampling philosophy, sampling methods, calibration methods, and pump calibration. Student will demonstrate, by use, how the indicator tubes function, direct reading instruments work, air sampling calculations, combustible gas and oxygen meters, passive sampling equipment, statistical sampling strategies, gas chromatography and photo-ionization detectors, spectrophotometric meters, OSHA Air monitoring regulations and the asbestos sampling and analysis methods.

NBC Areas of Competency 1, 18

Target Audience
Military/Civilian/both Both
Emergency Responder Group Firefighters/HAZMAT, and First Responder Trainers.
Emergency Responder Levels Technician/Specialist

Type of Instruction
Medium Classroom, paper based, and practical exercise.
Gov/Contractor Government

Recommended Class Size Less than 25

Course Location/ Facility Dependent Yes

Course Availability Immediately

Cost (Does not include billeting) \$350.00 per person

POC Bonnie Wilson, Registrar
Address NY/NJ Educational Resource Center
EOHSI Centers for Education and Training
45 Knightsbridge Road, Brookwood II
Piscataway, NJ 08854-3923
Phone Number (732)235-5062
(732)235-5133 FAX

Comments Does not cover biological and radiological materials nor does it specifically cover chemical agents that might be used by terrorists for a WMD. Strictly an environmental air sampling course.

Course Title **Applied Radiation Protection**

Course Sponsor DHHS-NIOSH/North Carolina Educational Resource Center
Course Description This course will provide the occupational safety and health professional with a practical understanding of radiation protection. Applied aspects of managing and evaluating an effective radiation protection program will be stressed in an easily understandable format geared toward industry, laboratory and health care organizations. This course provides the basic information necessary to function as a Radiation Safety Officer (RSO). Length: 2.5 days

Course Objectives The attendee will develop an understanding of the fundamentals of ionizing radiation and its effects upon humans, learn to evaluate exposure potential, understand the application of standards in exposure situations, be able to identify control requirements and applicable control methodologies and gain a working knowledge of the requirements necessary in organizing and developing an ionizing radiation protection program.

NBC Areas of Competency 17, 17a, 21

Target Audience
Military/Civilian/both Both
Emergency Responder Group Firefighters/HAZMAT, and First Responder Trainers.
Emergency Responder Levels Operations and Technician/Specialist

Type of Instruction
Medium Classroom and paper based.
Gov/Contractor Government

Recommended Class Size Less than 25

Course Location/Facility Dependent Yes

Course Availability Immediately

Cost (Does not include billeting) \$600.00 per person

POC Address
Larry D. Hyde
Director, Continuing Education
North Carolina Educational Resource Center
109 Conner Drive, Suite 1101
Chapel Hill, NC 27514

Phone Number
(919) 962-2101
(949) 966-7579 FAX

Comments Does not cover chemical and biological agents. Does not address and point out those radiological materials that might be used by a terrorist.

Course Title **Certified Hazardous Materials Manager Review**

<u>Course Sponsor</u>	DHHS-NIOSH/North Carolina Educational Resource Center
<u>Course Description</u>	This course is the application of scientific, engineering and managerial technology to identify, evaluate and eliminate or reduce risks involving conditions and practices related to hazardous materials over their total life cycles, including ultimate disposal. Length: 3.5 days.
<u>Course Objectives</u>	Student will become familiar with RCRA, CERCLA, SARA, TSCA, FIFRA, PCB Legal Issues, Emergency Planning Community Right to Know, OSHA, HAZCOM-HAZWOPER, NEPA, Accidental Release Prevention, Clean Air Act, Industrial Toxicology, Industrial Hygiene, Radiation, Lead, Clean Water Act, Chemistry of Hazardous Waste, Data Collection and Analysis, Asbestos, Hydrogeology, Remediation of Contaminated Sites, Safe Drinking Water Act, Program Management, Code of Ethics, Test Taking Strategies.
<u>Target Audience</u>	
Military/Civilian/both	Both
Emergency Responder Group	Senior Management
Emergency Responder Levels	Senior Management
<u>Type of Instruction</u>	
Medium	Classroom and paper based.
Gov/Contractor	Government
<u>Recommended</u>	
<u>Class Size</u>	Less than 25
<u>Course Location</u>	
<u>Facility Dependent</u>	No
<u>Course Availability</u>	Immediately
<u>Cost (Does not include billeting)</u>	\$600.00 per person
<u>POC</u>	Larry D. Hyde
<u>Address</u>	Director, Continuing Education North Carolina Educational Resource Center 109 Conner Drive, Suite 1101 Chapel Hill, NC 27514
<u>Phone Number</u>	(919) 962-2101 (949) 966-7579 FAX
<u>Prerequisites</u>	Attendees are assumed to have a basic understanding of the fundamentals of each of the subject areas prior to attendance.
<u>Comments</u>	Does not specifically cover NBC type agents but does a good overview of hazardous materials.

Course Title **Chemical Protective Clothing**

Course Sponsor DHHS-NIOSH/NY-NJ Educational Resource Center
Course Description The course consists of both theory and application in which the student will be taught the information needed to develop a Chemical Protective Clothing (CPC) program, or methods to enhance their knowledge of CPC sciences. There will be a discussion of the types of CPC available, different materials used in the construction of CPC, how these materials can affect breakthrough time and permeation rate, ergonomics and special fit problems. Length: 2 days

Course Objectives See Description

NBC Areas of Competency 1, 7, 9, 12, 14

Target Audience
Military/Civilian/both Both
Emergency Responder Group Firefighters/HAZMAT, and First Responder Trainers.
Emergency Responder Levels Technician/Specialist

Type of Instruction
Medium Classroom, and paper based.
Gov/Contractor Government

Recommended Class Size Less than 25

Course Location/Facility Dependent Yes

Course Availability Immediately

Cost (Does not include billeting) \$350.00 per person

POC Bonnie Wilson, Registrar
Address NY/NJ Educational Resource Center
EOHSI Centers for Education and Training
45 Knightsbridge Road, Brookwood II
Piscataway, NJ 08854-3923

Phone Number (732) 235-5062
(732) 235-5133 FAX

Comments Course is intended for safety professionals, industrial hygienists and employee or management personnel responsible for selecting or evaluating chemical protective clothing or managing CPC programs. Does not cover radiological materials and does not specifically cover chemical or biological agents that might be used by terrorists.

Course Title **Control of BioHazards in the Research Laboratory**

Course Sponsor DHHS-NIOSH/Johns Hopkins Educational Resource Center
Course Description This course provides instruction on the recognition and control of biohazards including infectious agents, oncogenic viruses, recombinant DNA, chemical carcinogens and other toxic agents. Instruction will be provided in the practices and procedures of biohazard control and in the organization, planning and implementation of a biosafety program. Length: 4.5.

- Course Objectives** The subject areas that will be covered are as follows:
- a. An overview of cell biology and host parasite relationships
 - b. Hazard potential of infectious agents, recombinant DNA and oncogenic viruses
 - c. Dissemination of contaminants
 - d. Equipment designed for safety
 - e. Containment concepts: Primary and secondary barriers
 - f. Personal practices and hygiene
 - g. Universal precautions and bloodborne pathogens
 - h. Safe handling and housing of laboratory animals
 - I. Sterilization and disaffection
 - j. Emerging diseases
 - k. Tuberculosis overview
 - l. Emergency procedures
 - m. Development of a safety program
 - n. Effective safety training
 - o. Laboratory inspections
 - p. Medical surveillance
 - q. Federal regulations involving laboratory safety
 - r. Packaging and shipment of biological materials

NBC Areas of Competency 24

Target Audience

Military/Civilian/both	Both
Emergency Responder Group	Firefighters/HAZMAT and First Responder Trainers.
Emergency Responder Levels	Technician/Specialist

Type of Instruction

Medium	Classroom and paper based.
Gov/Contractor	University

Recommended Class Size Less than 25

Course Location/ Facility Dependent Yes

Course Availability Immediately

Cost (Does not include billeting) \$1200.00 per person

POC Diane Zerbe, Director of Continuing Education

Address

Johns Hopkins University Educational Resource Center
School of Hygiene and Public Health
615 North Wolfe Street, Room 6001
Baltimore, MD 21205

Phone Number

(410) 955-0423
(410) 614-4986 FAX

Comments

The course is directed to safety officer, clinical and biomedical laboratory supervisors, bench scientists, industrial hygienists and technicians.

Course Title **Ecological Toxicology and Environmental Risk Assessment**

Course Sponsor DHHS-NIOSH/NY NJ Educational Resource Center
Course Description Course consists of the analysis of information concerning the contaminants (either organic or inorganic) in the air, soil and water. Once contaminant is determined its medical and environmental effects will be calculated. Length: 4 days

Course Objectives Students will be able to determine the environmental contaminant, determine its medical effects on people and it's impact on the environment in the concentration found in the field.

NBC Areas of Competency 1, 2, 6, 18

Target Audience
Military/Civilian/both Both
Emergency Responder Group Firefighters/HAZMAT, EMS, and Emergency Room Personnel.
Emergency Responder Levels Technician/Specialist

Type of Instruction
Medium Classroom, paper based, video and practical exercise.
Gov/Contractor Government

Recommended Class Size Less than 25

Course Location/ Facility Dependent Yes

Course Availability Immediately

Course Cost (Does not include billeting) \$700.00 per person

POC Address
Bonnie Wilson, Registrar
NY/NJ Educational Resource Center
EOHSI Centers for Education and Training
45 Knightsbridge Road, Brookwood II
Piscataway, NJ 08854-3923

Phone Number
(732) 235-5062
(732) 235-5133 FAX

Course Title **Fit Testing Workshop**

Course Sponsor DHHS-NIOSH/University of Cincinnati Educational Resource Center

Course Description This course provides detailed information and "hands-on" experience for conducting qualitative and quantitative respirator fit testing. Each student will be provided a respirator for participation in fit testing workshops. A combination of lecture and "hands-on" testing in the presence of a trained and experienced instructor will be used to help participants learn how to conduct respirator fit testing to satisfy regulatory requirements. Hands-on fit testing will include qualitative and quantitative methods. The following types of fit testing equipment will be available: Saccharin sweetener, Bitrex, TSI PortaCount, Dynatech Nevada Fit Tester 3000, Banana oil and irritant smoke fit testing. Students will learn how to set-up, operate, maintain, troubleshoot, analyze, and interpret fit test results. Where appropriate, students will learn how to calibrate testing equipment and record results. All course materials, supplies, equipment, and reference materials will be provided. Length: 2 Days.

Course Objectives See Course Description

NBC Areas of Competency 7

Target Audience

Military/Civilian/both	Both
Emergency Responder Group	Firefighters/HAZMAT, and First Responder Trainers.
Emergency Responder Levels	Technician/Specialist

Type of Instruction

Medium	Classroom, paper based, video and practical exercise.
Gov/Contractor	Government

Recommended Class Size Less than 25

Course Location/ Facility Dependent Yes

Course Availability Immediately

Cost (Does not include billeting) TBD

POC Marianne Kautz, Staff Assistant

Address Continuing Education Program, Educational Resource Center - University of Cincinnati, P.O. Box 670056, Cincinnati, OH 45267-0056
(800) 207-3399

Phone Number

Comments Course is designed for individuals who need to conduct qualitative or quantitative respirator fit testing at their workplace. Refer to listing of course topics.

Course Title **Hazardous Materials, OSHA 201A**

Course Sponsor DHHS-NIOSH/University of Cincinnati Educational Resource Center
Course Description This course OSHA general industry standards and integrates materials from other consensus and proprietary standards that relate to hazardous materials. (Length of course not given)

Course Objectives The objectives of this course are to cover the following subjects as they relate to the OSHA 201A regulation:
a. Hazardous Locations
b. HAZWOPER Regulations
c. Compressed Gases
d. Welding
e. Liquefied Petroleum Gases and Flammable Liquids
f. Spray Finishing
g. Dip tanks
h. Cryogenics
I. Process safety Management

NBC Areas of Competency 1

Target Audience
Military/Civilian/both Both
Emergency Responder Group Firefighters/HAZMAT and First Responder Trainers
Emergency Responder Levels Technician/Specialist

Type of Instruction
Medium Classroom, paper based and video.
Gov/Contractor Government

Recommended Class Size Less than 30

Course Location/Facility Dependent No

Course Availability Immediately

Course Cost (Does not include billeting) \$625.00 per person

POC Address Jean Malone, Staff Assistant
Continuing Education Program Educational Resource Center-University of Cincinnati,
P.O. Box 670056, Cincinnati, OH 45267
Phone Number (515) 558-5704

Course Title **Hazardous Substances Management and Response: Health & Safety Issues**

Course Sponsor DHHS/NIOSH/Utah Educational Resource Center

Course Description This course is intended to introduce course participants to the overall arena of 'hazardous substances'. The course participants will: gain a basic knowledge of the key regulations covering the field of hazardous materials; be able to define hazardous materials, hazardous substances and hazardous wastes according to DOT, EPA, OSHA, and other authorities; be able to outline the basic hazards and classes of 'hazardous materials'; be able to define basic toxicological terms and identify the four major routes of exposure; be able to explain the selection and use of various forms of respirator protection and chemical protective clothing; be able to describe work practices to lessen risk and safe use of engineering controls; be able to outline the need for and proper functions of decontamination; be able to identify the zones of control and basic site safety considerations. Length: 3 days

Course Objectives Topics will be as follows:

- a. Legal & regulatory aspects
- b. Fire Codes & chemistry/Reactive hazards
- c. Principles of toxicology
- d. Toxic Chemicals
- e. Biological hazards
- f. Thermal stress
- g. Non-ionizing radiation & noise
- h. Safety
- I. Hazard Evaluation

NBC Areas of Competency 1,2,6,7,8,8a,9,12,13,14,15,17,19,20,21

Target Audience

Military/Civilian/both	Both
Emergency Responder Group	Firefighters/HAZMAT and First Responder Trainers
Emergency Responder Levels	Technician/Specialist

Type of Instruction

Medium	Classroom and paper based
Gov/Contractor	University

Recommended Class Size Less than 25

Course Location/ Facility Dependent Yes

Course Cost (Does not include billeting) \$425.00 per person

POC Address Luz Dominguez
Rocky Mountain Center for Environmental Health, University of Utah, Salt Lake City, Utah

Phone Number (801) 581-5710

Course Title **Management and Disposal of Radioactive Waste**

Course Sponsor DHHS-NIOSH/Harvard Educational Resource Center
Course Description You will learn the basics of radiation protection relevant to the management and disposal of radioactive waste, how to develop a management perspective that ranges from generation to disposal, to identify situations where the generation of radioactive waste can be reduced or prevented, and to develop a scientific basis for establishing waste acceptance criteria and evaluating various waste disposal options. Special topics include the conduct of waste facility performance evaluations and assessments, the development and application of standards for decontamination and decommissioning, and the collection and interpretation of information related to public opinions and perceptions on radioactive waste management. Length: 5 days

Course Objectives At the conclusion of this course you will have learned the sources and classifications of radioactive waste; radiation fundamentals and environmental standards relevant to waste management and disposal; the status of US programs for the disposal of radioactive wastes; a scientific basis for decision making; and current public attitudes about radioactive waste management and disposal and effective programs for public education.

NBC Areas of Competency 6, 14

Target Audience
Military/Civilian/both Both
Emergency Responder Group HAZMAT
Emergency Responder Levels Technician/Specialist

Type of Instruction
Medium Classroom, paper based and video.
Gov/Contractor Government

Recommended Class Size Less than 25

Course Location/ Facility Dependent Yes

Course Availability Immediately
Cost (Does not include billeting) \$1,295 per person

POC Address Daryl Bichel, Assistant Director
Center for Continuing Professional Education Harvard School of Public Health,
677 Hunnington Avenue Boston, MA 02114-6023

Phone Number (617) 432-3314

Comments Designed for government regulatory personnel, waste management professionals, and safety and health professionals, this practical course focuses on low-level radioactive waste.

Course Title **Managing Hazardous Materials Incidents**

<u>Course Sponsor</u>	DHHS-NIOSH/Northwest Center for Occupational Health & Safety
<u>Course Description</u>	This course fulfills OSHA requirements for Hazardous waste site or emergency response annual refresher training course. It is especially suitable for individuals managing or supervising hazardous waste operations or emergency response. Interagency communication and coordination are emphasized in this highly specialized course. Participants will learn about ICS and how to interact with other Eastern Washington (State of Washington) organizations-who to call, when to call, what to ask, and what to do in various emergency situations. Length: 3 days
<u>Course Objectives</u>	See Description
<u>NBC Areas of Competency</u>	1, 2a, 4, 5, 16, 21
<u>Target Audience</u>	
Military/Civilian/both	Both
Emergency Responder Group	Firefighters/HAZMAT, EMS, Incident Command and First Responder Trainers.
Emergency Responder Levels	Awareness, Operations, & Technician/Specialist
<u>Type of Instruction</u>	
Medium	Classroom, paper based, video and practical exercise.
Gov/Contractor	Government
<u>Recommended Class Size</u>	Less than 25
<u>Course Location/ Facility Dependent</u>	Yes
<u>Course Availability</u>	Immediately
<u>Cost (Does not include billeting)</u>	\$145 per person
<u>POC</u>	Jan Schwert, Manager of CE
<u>Address</u>	Northwest Center for Occupational Health & Safety, Department of Environmental Health, University of Washington, 4225 Roosevelt Way NE, Suite 100, Seattle, WA 98105-6099
<u>Phone Number</u>	(206) 543-1069
<u>Comments</u>	Federal, State and local government agency personnel and hazardous materials managers who respond to hazardous waste incidents.

Course Title **Nuclear Emergency Planning**

Course Sponsor DHHS-NIOSH/Harvard Educational Resource Center

Course Description This course covers topics from the basics of emergency planning to current issues. Fundamental concepts are addressed on the first day, which is optional for those with previous experience. These topics include the principles of emergency planning, dose projection methodology including the basics of meteorology and atmospheric dispersion modeling, Environmental Protection Agency Protective Action Guides, and the principles of crisis communication. The current issues portion addresses program management, training exercise performance, State and Federal Agency interface, Recent emergency plan activation experience, and emergency planning for biological, chemical, and nuclear terrorism. Length: 4 days

Course Objectives You will learn: cost efficient methods to organize and operate an emergency response organization; public information and communication techniques in a crisis; radiation health effects; radioactivity transport and dose projection methods; guidance provided in EPA's Manual of Protective Action Guides; guidance for NRC nuclear utility licensees; current requirements for emergency management at Department of Energy facilities; and emergency plan design and implementation.

NBC Areas of Competency 3, 8a, 25, 26

Target Audience

Military/Civilian/both	Both
Emergency Responder Group	Incident Commanders, Public Officials and First Responder Trainers.
Emergency Responder Levels	Senior Management

Type of Instruction

Medium	Classroom, paper based and video.
Gov/Contractor	Government

Recommended

Class Size Less than 25

**Course Location/
Facility Dependent** Yes

Course Availability Immediately

**Cost (Does not
include billeting)** \$1,095 per person

POC Daryl Bichel, Assistant Director

Address Center for Continuing Professional Education Harvard School of
Public Health, 677 Huntington Avenue, Boston, MA 02115-6023

Phone Number (617) 432-3314

Comments For emergency planners, radiation control personnel and emergency responders.

Course Title **Occupational Respiratory Protection**

Course Sponsor DHHS-NIOSH/John Hopkins Educational Resource Center
Course Description This course provides instruction in the technical, administrative and practical aspects of a respiratory protection program. An extensive array of respiratory protective devices and support equipment will be on display during the course to allow students hands-on experience, and to familiarize them with the wide variety of devices available. Classroom discussion will include demonstrations of various procedures for performing tasks required in a respiratory protection program. Length: 3 days

Course Objectives The students will learn the following practical information:
a. Regulations and standards
b. Permissible practices
c. Elements of a compliance program
d. Respiratory approval
e. Terminology and nomenclature
f. Selection of respirators
g. Users training and education

NBC Areas of Competency 7

Target Audience
Military/Civilian/both Both
Emergency Responder Group Firefighters/HAZMAT and First Responder Trainers.
Emergency Responder Levels Technician/Specialist

Type of Instruction
Medium Classroom, paper based and practical exercise.
Gov/Contractor University

Recommended Class Size Less than 25

Course Location/ Facility Dependent Yes

Course Availability Immediately

POC Address Diane Zerbe, Director of Continuing Education
Johns Hopkins University Educational Resource Center
School of Hygiene and Public Health
615 North Wolfe Street, Room 6001
Baltimore, MD 21205

Phone Number (410) 955-0423
(410) 614-4986 FAX

Comments This course only fulfills the requirements for selection of a negative pressure respirator.

Course Title **Overview of Respiratory Protection**

<u>Course Sponsor</u>	DHHS-NIOSH/University of Cincinnati Educational Resource Center
<u>Course Description</u>	This special one day course provides a practical overview of respirators, standards, guidelines, use, limitations and fit testing techniques. The morning session includes lectures on the types, use, selection and limitations of respirators. The advantages and disadvantages of different respirator face-pieces, filters, cartridges, and PAPR's will also be discussed. The physiologic effects of wearing a respirator will program requirements will be reviewed to help the student comply with OSHA regulations. The afternoon session will include qualitative and quantitative fit testing demonstrations, worker training requirements, and a review of respirator medical clearance examinations.
<u>Course Objectives</u>	See Description
<u>NBC Areas of Competency</u>	7, 12
<u>Target Audience</u>	
Military/Civilian/both	Both
Emergency Responder Group	Firefighters/HAZMAT, and First Responder Trainers.
Emergency Responder Levels	Technician/Specialist
<u>Type of Instruction</u>	
Medium	Classroom, paper based, video and practical exercise.
Gov/Contractor	Government
<u>Recommended Class Size</u>	Less than 25
<u>Course Location/Facility Dependent</u>	Yes
<u>Course Availability</u>	Immediately
<u>Cost (Does not include billeting)</u>	\$220.00 per person
<u>POC</u>	Marianne Kautz, Staff Assistant
<u>Address</u>	Continuing Education Program, Educational Resource Center,-University of Cincinnati, PO Box 670056, Cincinnati, OH 45267-0056
<u>Phone Number</u>	(800) 207-3399
<u>Prerequisites</u>	Little or no prior formal training is required. This course is helpful to individuals who oversee respirator users in their work place.

Course Title **Pesticides: Risk Evaluation & Site Mitigation**

Course Sponsor DHHS-NIOSH/Northern California Educational Resource Centers
Course Description Course will consist of pesticide registration process, risk assessment methodology and application, environmental fate, transport monitoring/modeling, epidemiology and site mitigation/remediation technologies in practice. (Length of course not given)

Course Objectives Students will be able to determine risk assessments, environmental fates and transport studies of pesticides as they are evaluated prior to registration and use in California. Participants will be introduced to risk assessment and hazard evaluation techniques as they are used to evaluate past use and disposal of pesticide materials. In addition, attendees will learn about various on-going and/or proposed remediation technologies for the mitigation of pesticide contaminated sites.

Target Audience
Military/Civilian/both Both
Emergency Responder Group Firefighters/HAZMAT and First Responder Trainers
Emergency Responder Levels Technician/Specialist

Type of Instruction
Medium Classroom and paper based.
Gov/Contractor University

Recommended
Class Size Less than 25

Course Location/
Facility Dependent No

Course Availability Immediately

Course Cost
(Does not include
billeting) \$95.00 Private; \$50.00 Public Agencies

POC Barbara Plog
Address COEH Continuing Education Richmond Field Station 1301South 46th Street Bldg#102,
Richmond, CA 94804
Phone Number (410) 231-5645

Course Title **Pulmonary Function Training**

Course Sponsor DHHS/NIOSH/ Southwest Center for Occupational & Environmental Health
Course Description This course ensures the student will use the proper technique for obtaining spirometric values as defined by NIOSH and the American Thoracic Society. Comparison and use of various spirometer types and calibration syringes as well as calibration techniques and coaching Length: 2 days

Course Objectives The objectives of the course are to ensure the student understands:
a. Basic respiratory anatomy and Physiology
b. Can determine respiratory flow
c. Can determine lung volume
d. Knows what environmental effects may affect the respiratory system
e. Knows the regulatory issues and record keeping requirements.
f. Knows NIOSH & ATS recommendations for spirometry testing and calculation

NBC Areas of Competency 7

Target Audience
Military/Civilian/both Both
Emergency Responder Group Firefighters/HAZMAT and First Responder Trainers
Emergency Responder Levels Technician/Specialist

Type of Instruction
Medium Classroom, paper based and Practical exercise.
Gov/Contractor University

Recommended Class Size Less than 25

Course Location/ Facility Dependent Yes

Course Availability Immediately

POC Address Candace Pardue, Director of Continuing Education
Southwest Center for Occupational & Environmental Health
P.O. Box 20186, RAS W1026,
Houston, Texas 77225-0186

Phone Number (713) 500-9463
(713) 500-9442 FAX

Comments This course only addresses the use of the respirator.

Course Title **Quantitative Fit Testing**

Course Sponsor DHHS-NIOSH/Southwest Center for Occupational and Environmental Health
Course Description This course prepares you to correctly perform quantitative respirator fit testing using the TSI PORTACOUNT@ and other hands-on applications. This is an intensive course which focuses on computer applications and operation of the test equipment. The course will utilize a supervised practical to ensure that you leave the course with a comprehensive understanding of fit testing operations. Length: 2 days

Course Objectives The objective of the course is to ensure the student can:
a. Install and configure software for the hardware.
b. Know OSHA regulations and standards.
c. Keep accurate records and document all actions taken.
d. Determine the respirator fit through quantitative testing.
e. Detect, troubleshoot and correct errors in fit or testing equipment.
f. Understand and customize software for use of organization.

NBC Areas of Competency 7

Target Audience
Military/Civilian/both Both
Emergency Responder Group Firefighters/HAZMAT and First Responder Trainers
Emergency Responder Levels Technician/Specialist

Type of Instruction
Medium Classroom, paper based and Practical exercise.
Gov/Contractor University

Recommended Class Size Less than 25

Course Location/Facility Dependent Yes

Course Availability Immediately

POC Candace Pardue, Director of Continuing Education
Address Southwest Center for Occupational & Environmental Health
P.O. Box 20186, RAS W1026,
Houston, Texas 77225-0186

Phone Number (713) 500-9463
(713) 500-9442 FAX

Prerequisites Must be Trainers

Comments Only meets the Performance Objectives for the respirator.

Course Title **Radiation Safety Officer Course**

Course Sponsor DHHS-NIOSH/Southwest Center for Occupational and Environmental Health
Course Description This course is designed to provide information needed for an individual to anticipate, recognize, evaluate and control ionizing radiation hazards. The course outline and lectures are designed to meet the established Nuclear Regulatory Commission and State of Texas Bureau of Radiation Control training requirements for persons wishing to become Radiation Safety Officers. Technical classroom sessions are supplemented with daily practical problem solving and or hands-on laboratories. Length: 5 Days.

Course Objectives At the conclusion of this course participants will be able to:

- a. Define the concepts of radiation and radioactivity.
- b. Differentiate between ionizing and non-ionizing radiation.
- c. Relate the types of radiation sources and their effects to naturally occurring materials.
- d. Understand basic terminology and differentiate between high dose and low dose biological effects of radiation in humans.
- e. Know the basic regulatory dose limits for occupationally and non-occupationally exposed personnel.
- f. Define and understand the concept of ALARA as set forth in federal and state regulation.
- g. Differentiate between internal and external exposure pathways and the mechanisms available to limit doses.
- h. Discuss various types of radiation detectors, and to understand the limits of each type.
- I. Understand and differentiate types of exposures from internal and external sources.
- j. Solve basic internal dosimetry exposure problems.
- k. Identify different forms of radioactive waste.
- l. Discuss different treatment disposal options for radioactive waste.
- m. Apply rules and regulations for the storage, treatment, disposal and transportation of radioactive waste.

NBC Areas of Competency 1, 6, 7, 9, 17, 17a, 18, 21

Target Audience

Military/Civilian/both	Both
Emergency Responder Group	Firefighters/HAZMAT and First Responder Trainers
Emergency Responder Levels	Technician/Specialist

Type of Instruction

Medium	Classroom, paper based and Practical exercise.
Gov/Contractor	University

Recommended Class Size Less than 25

Course Location/ Facility Dependent Yes

Course Availability Immediately

Course Cost (Does not include billeting)

\$925.00 per person

POC

Candace Pardue, Director of Continuing Education

Address

Southwest Center for Occupational & Environmental Health

P.O. Box 20186, RAS W1026,

Houston, Texas 77225-0186

Phone Number

(713) 500-9463

(713) 500-9442 FAX

Prerequisites

Must bring a scientific calculator and a copy of your organization's radiation license.

Comments

Does not cover terrorist use of radioactive elements. Does not cover chemical or biological agents.

Course Title **Radioactivity in the Environment: Risk, Assessment, and Measurement**

<u>Course Sponsor</u>	DHHS-NIOSH/Harvard Educational Resource Center
<u>Course Description</u>	This course addresses three aspects of radioactivity in the environment: risk of exposure, assessment of radioactivity transport, and measurement. The curriculum will prepare you to respond to the demands of new regulations governing environmental measurement and assessments. Intended for environmental engineers/scientists, nuclear engineers, and regulators, the program includes a tour of a large environmental measurement laboratory in the Boston, MA area. Length: 4 days
<u>Course Objectives</u>	You will learn: techniques for detecting the presence of radioactivity in the environment, including the method to show compliance with the newly established EPA and NRC Criteria for Release of a Site for Unrestricted Use; methods employed for quality control and quality assurance at a state-of-the-art environmental laboratory; and how to report the results of environmental sample analysis to allow for clear understanding and interpretation. You will also gain an understanding of mechanisms for radioactive particle dispersion and transport in the environment through atmospheric and terrestrial pathways, from their source to potential exposure to the public; and models for predicting this dispersion and methods promulgated by the National Council on Radiation Protection and Measurement to evaluate potential releases for compliance with regulatory standards.
<u>NBC Areas of Competency</u>	6
<u>Target Audience</u>	
Military/Civilian/both	Both
Emergency Responder Group	HAZMAT and First Responder Trainers.
Emergency Responder Levels	Technician/Specialist
<u>Type of Instruction</u>	
Medium	Classroom, paper based, video and practical exercise.
Gov/Contractor	Government
<u>Recommended Class Size</u>	Less than 25
<u>Course Location/ Facility Dependent</u>	Yes
<u>Course Availability</u>	Immediately
<u>Cost (Does not include billeting)</u>	\$1,095 per person
<u>POC</u>	Daryl Bichel, Assistant Director
<u>Address</u>	Center for Continuing Profession Education, Harvard School of Public Health, 677 Hunnington Avenue, Boston, MA 02115-6023
<u>Phone Number</u>	(617) 432-3314

Course Title **Respiratory Protection and Respirator Fit Testing**

<u>Course Sponsor</u>	DHHS-NIOSH/Minnesota Educational Resource Center
<u>Course Description</u>	This course will introduce and explain the importance of the elements of an effective respiratory protection program. OSHA's legal requirements and documentation of the program will be explained. Respirator fit testing will be thoroughly discussed and students will have an opportunity to practice valid and legally acceptable qualitative fit tests. (Length of course not given)
<u>Course Objectives</u>	As a result of attending this course participants will be able to: a. Identify the elements of a respirator protection program. b. Describe qualitative and quantitative fit test and discuss the advantages and disadvantages of each. c. Perform qualitative fit tests in accordance with accepted protocols.
<u>NBC Areas of Competency</u>	7
<u>Target Audience</u>	Military/Civilian/both Both Emergency Responder Group Firefighters/HAZMAT Trainers. Emergency Responder Levels Technician/Specialist
<u>Type of Instruction</u>	Medium Classroom, paper based, video and practical exercise. Gov/Contractor Government
<u>Recommended Class Size</u>	Less than 25
<u>Course Location/Facility Dependent</u>	Yes
<u>Course Availability</u>	Immediately
<u>Cost (Does not include billeting)</u>	\$175.00
<u>POC</u>	Sharon Kopp, Registrar
<u>Address</u>	Midwest Center for Occupational Health and Safety, 640 Jackson Street, St. Paul, Minnesota 55101
<u>Phone Number</u>	(612) 221-3992
<u>Comments</u>	Nurses and other individuals who are responsible for all or any part of a respiratory protection program.

Course Title **Respiratory Protection Program**

Course Sponsor DHHS-NIOSH/Southwest Center for Occupational and Environmental Health
Course Description This course addresses the OSHA 29 CFR 1910.134 regulation. Experienced instructors will lead participants in an intensive hands-on workshop using a variety of respirators. This course includes qualitative and quantitative fit testing methods. The registration fee includes a course manual and extensive reference materials. After the conclusion of this course, you should be able to organize, implement, and evaluate respirator programs.
Length: 2 days

Course Objectives Students will learn the components of the respirator program, advantages & limitations of respirators, medical evaluations, employee training, respiratory system physiology, respirator selection, use and maintenance.

NBC Areas of Competency 7, 8

Target Audience
Military/Civilian/both Both
Emergency Responder Group Firefighters/HAZMAT and First Responder Trainers
Emergency Responder Levels Technician/Specialist

Type of Instruction
Medium Classroom and paper based.
Gov/Contractor University

Recommended Class Size Less than 25

Course Location/ Facility Dependent Yes

Course Availability Immediately

Course Cost (Does not include billeting) \$595.00 per person

POC Address Candace Pardue, Director of Continuing Education
Southwest Center for Occupational & Environmental Health
P.O. Box 20186, RAS W1026,
Houston, Texas 77225-0186

Phone Number (713) 500-9463
(713) 500-9442 FAX

Prerequisites Industrial hygienist, occupational health nurses, and other health and safety professionals.
Comments This course only covers use of the respirator in environments in which the contaminants are less than IDLH quantities, oxygen content is normal, contaminant is not a carcinogen and the area to be worked in is not a 'confined space'.

Course Title **Sampling for Hazardous Materials**

Course Sponsor DHHS-NIOSH/NY-NJ Educational Resource Center
Course Description Attendees will receive practical information for effectively sampling hazardous materials at clean-up sites. Focus on sampling plan development, equipment suitable for hazardous materials sampling, procedures for safely collecting samples and regulatory requirements. Attendees will participate in numerous hands-on sampling exercises.

Course Objectives The objectives of the course are to familiarize the student with the following areas:
a. Sample development
b. Field Screening Techniques
c. Sample analysis
d. Sampling Procedures for Surface water, sediment, ground water and soil (NJDEP and EPA Protocols)
e. Documentation
f. Sample Packaging and Shipping
g. Field Sampling exercises

NBC Areas of Competency 17a, 18, 24

Target Audience
Military/Civilian/both Employees responsible for inspecting, investigating and remediating Hazardous waste sites.
Emergency Responder Group Firefighters/HAZMAT, and First Responder Trainers.
Emergency Responder Levels Technician/Specialist

Type of Instruction
Medium Classroom, paper based and practical exercise.
Gov/Contractor Government

Recommended Class Size Less than 25

Course Location/ Facility Dependence Yes

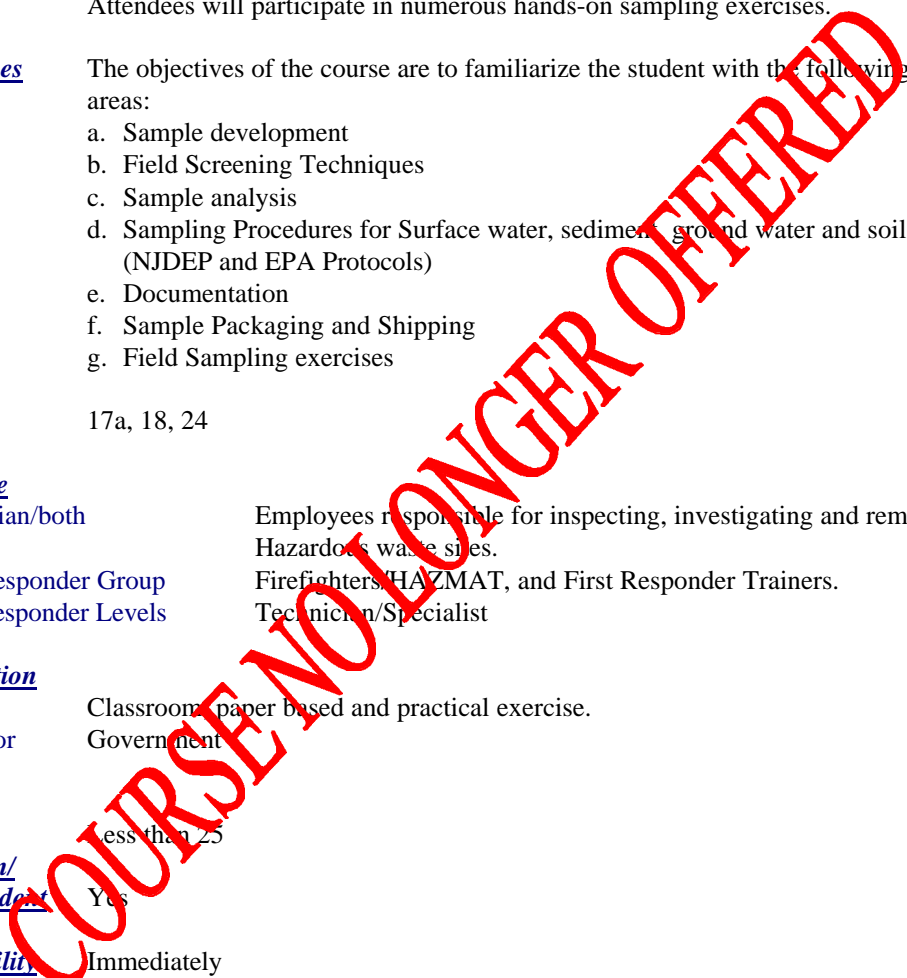
Course Availability Immediately

Cost (Does not include billeting) \$525.00 per person

POC Address Bonnie Wilson, Registrar
NY/NJ Educational Resource Center
EOHSI Centers for Education and Training
45 Knightsbridge Road, Brookwood II
Piscataway, NJ 08854-3923

Phone Number (732)235-5062
(732)235-5133 FAX

Comments Course is intended for employees responsible for inspecting, investigating and remediating hazardous waste sites.



Course Title **Sampling of Hazardous Materials**

Course Sponsor DHHS-NIOSH/North Carolina Educational Resource Center
Course Description Attendees will receive practical information for effectively sampling hazardous materials at clean-up sites. Focus on sampling plan development, equipment suitable for hazardous materials sampling, procedures for safely collecting samples and regulatory requirements. Attendees will participate in numerous hands-on sampling exercises. (Length of course not given)

Course Objectives The objectives of the course are to familiarize the student with the following areas:

- a. Sample development
- b. Field Screening Techniques
- c. Sample analysis
- d. Sampling Procedures for Surface water, sediment, ground water and soil (NJDEP and EPA Protocols)
- e. Documentation
- f. Sample Packaging and Shipping
- g. Field Sampling exercises

NBC Areas of Competency 17a, 18, 24

Target Audience

Military/Civilian/both	Both
Emergency Responder Group	Firefighters/HAZMAT, and First Responder Trainers.
Emergency Responder Levels	Technician/Specialist

Type of Instruction

Medium	Classroom, paper based and practical exercise.
Gov/Contractor	Government

Recommended Class Size Less than 25

Course Location/ Facility Dependent Yes

Course Availability Immediately

Cost (Does not include billeting) \$525.00 per person

POC Address Larry D. Hyde, Director of Continuing Education
North Carolina Educational Resource Center
109 Conner Drive, Suite 1101
Chapel Hill, NC 27514

Phone Number (919) 962-2101
(949) 966-7579 FAX

Comments Course is intended for employees responsible for inspecting, investigating and remediating hazardous waste sites.





FEDERAL BUREAU OF INVESTIGATION (FBI)

Course Title **Community Integration at a WMD Incident Site**

Course Sponsor
Course Description

FBI
This course builds on the Integrated Command Structure to include the complexities of a WMD incident. The pervasive effects of a nuclear, radiological, chemical, or biological incident will require a community to adopt a new outlook for integrating an operational response. Related issues include the requirement for clearly defined roles and responsibilities, the requirements for training and equipment to operate in a hazardous materials environment, the willingness of responders to accept the risks of operating in a hazardous environment, and dealing with public panic and the media. Course length is two hours.

Course Objectives

- a. To understand the requirements for integrating an operational response to a WMD incident.
- b. To understand the effects of a WMD incident on a community's Integrated Command Structure.
- c. To understand the requirements for modifying a community's emergency response plan to include WMD issues.

NBC Areas of Competency

11, 14, 16

Target Audience

Military/Civilian/both	Both
Emergency Responder Group	Senior Officials,/Public Officials, Incident Commanders & First Responder Trainers.
Emergency Responder Levels	Awareness Level, Operations Level and Senior Management.

Type of Instruction

Medium	Classroom, paper based, overhead and practical exercise.
Gov/Contractor	Government

Recommended

Class Size Less than 50

**Course Location/
Facility Dependent** No

Comments

Upon availability, the POC will be the training coordinator located at each FBI field office.

Course Title **Crime Scene Awareness at a WMD Incident Site**

Course Sponsor
Course Description

FBI
This course provides training related to crime scenes resulting from WMD incidents. It is the FBI's position that such crime scenes should only be exploited by appropriate response teams under the direction of the FBI (i.e., interagency NBC Response Teams and/or FBI Evidence Response Teams). However, Crime Scene Awareness would be a useful component of any Emergency Responder training initiative. This course will provide appropriate Chemical/Biological training at the Awareness level, as defined by National Fire Protection Association (NFPA) standards, and in the context of FBI evidence collection requirements. Length: 2 hours

Course Objectives

- a. To develop the civil response community's crime scene awareness at a WMD Incident Site.
- b. To develop an understanding of existing Federal procedures for responding to and managing a WMD crime scene.

NBC Areas of Competency

10

Target Audience

Military/Civilian/both	Both
Emergency Responder Group	Incident Commanders & First Responder Trainers.
Emergency Responder Levels	Awareness and Operations Level.

Type of Instruction

Medium	Classroom, paper based, overhead and practical exercise.
Gov/Contractor	Government

Recommended

Class Size

Less than 50

Course Location/

Facility Dependent

No

POC

Local FBI Field Office

Comments

Upon availability, the POC will be the training coordinator located at each FBI field office.

Course Title **Federal Integration at a WMD Incident Site**

Course Sponsor FBI
Course Description This course will familiarize emergency responders and local incident managers with the integration and follow-on of Federal response assets at a WMD incident site. They will also be made aware of the FBI's Lead Federal Agency Role for the operational response and crisis management of a terrorist incident which involves WMD. Senior officials and incident managers must be introduced to the Federal plans, infrastructure, and the process by which Federal support assets are Command Structure. This training would also include a WMD threat assessment from a national and local basis. Course length is two hours.

- Course Objectives**
- a. To understand the integration and follow-on of Federal response assets at a WMD incident site.
 - b. To understand the Lead Federal Agency concept.
 - c. To understand the incorporation of the FBI JOC with a community's Integrated Command Structure.

NBC Areas of Competency 11

Target Audience

Military/Civilian/both	Both
Emergency Responder Group	Senior Officials/Public Officials, Incident Commanders & First Responder Trainers.
Emergency Responder Levels	Awareness Level, Operations Level and Senior Management Level.

Type of Instruction

Medium	Classroom, paperbased, overhead and practical exercise.
Gov/Contractor	Government

Recommended Class Size Less than 50

Course Location/Facility Dependent No

Comments Upon availability, the POC will be the training coordinator located at each FBI field office.





**FEDERAL EMERGENCY MANAGEMENT AGENCY
(FEMA)
CHEMICAL STOCKPILE EMERGENCY
PREPAREDNESS PROGRAM (CSEPP)**

Course Title **Agent Characteristics and Toxicology First Aid and Special Treatment (ACTFAST) Use of Auto-Injectors**

Course Sponsor FEMA/CSEPP

Course Description An 8 hour course designed to prepare emergency medical personnel to recognize and provide first response treatment to personnel exposed to nerve and blister agents. It can be presented in three ways - self study, classroom with prior material review by trainees or classroom with no prior material review.

- Course Objectives**
- a. Describe initial first aid for nerve and blister agents.
 - b. Describe the potential hazards of nerve and blister agents, and how they work.
 - c. Identify the signs and symptoms of nerve and blister agent exposure.

NBC Areas of Competency 13, 19, 20

Target Audience

Military/Civilian/both	Both
Emergency Responder Group	Firefighter/HAZMAT, Law Enforcement, Incident Commanders & First Responder Trainers.
Emergency Responder Levels	Awareness Level, Operations Level and EMS Level.

Type of Instruction

Medium	Classroom
Gov/Contractor	Contractor

Course Location/ Facility Dependent No

POC Mr. Robert Norville
Address 500 C. Street, SW, Suite 629C, Washington, DC 20472
Phone Number (202) 646-2734

Comments This course is conducted by the States for emergency management professionals who are residents of the United States. For course availability and cost, contact the State Training Office of Emergency Service. Does not address the nuclear/biological components.

Course Title **An Introduction to Protective Action Decision Making**

Course Sponsor FEMA/CSEPP
Course Description This video describes two primary protective action options (evacuation and shelter-in-place) that could be recommended during a chemical emergency, the crucial decision issues for each option, and a process that planners and decision makers can use in developing. Length: 30 minutes

Course Objectives a. Describe protective options evacuation and shelter-in-place.
 b. Describe decision issues related to each option.
 c. Enable planners to develop protective action plans.

NBC Areas of Competency 8, 8a

Target Audience
Military/Civilian/both Both
Emergency Responder Group Firefighter/HAZMAT, Law Enforcement, Incident Commanders & First Responder Trainers.
Emergency Responder Levels Awareness Level, Operations Level and EMS Level.

Type of Instruction
Medium Classroom, Paperbased and video.
Gov/Contractor Contractor

Course Location/ Facility Dependent No

Course Availability Immediately

POC Mr. Robert Norville
Address 500 C. Street, SW, Suite 629C, Washington, DC 20472
Phone Number (202) 646-2734

Comments Requires video cassette player for presentation. Does not address nuclear/biological components of NBC.

Course Title **Chemical Accident/Incident Response & Assistance**

<u>Course Sponsor</u>	FEMA/CSEPP
<u>Course Description</u>	Twenty-nine to forty hour course emphasizing readiness in a possible chemical accident. Response and recovery phases are also discussed to a lesser degree. This course identifies the various functions performed after a chemical agent release and covers actions by public affairs, monitoring, decontamination, security, logistics.
<u>Course Objectives</u>	Understand Army procedures in a chemical accident
<u>NBC Areas of Competency</u>	3, 5, 21, 25, 26
<u>Target Audience</u>	
Military/Civilian/both	Both
Emergency Responder Group	Public Officials, Incident Commanders & First Responder Trainers.
Emergency Responder Levels	Incident Command.
<u>Type of Instruction</u>	
Medium	Classroom.
Gov/Contractor	Contractor
<u>Recommended Class Size</u>	Less than 50
<u>Course Location/Facility Dependent</u>	Yes
<u>Course Availability</u>	Immediately
<u>POC</u>	Mr. Barry Willmington
<u>Address</u>	U.S. Army Defense & Ammunition Center, Savanna, IL 61074
<u>Phone Number</u>	(815) 273-8915
<u>Comments</u>	This course is intended for on-post personnel of a CSEPP site. Full course title: Chemical Accident/Incident Response and Assistance (CAIRA). Does not address nuclear/biological components.

Course Title **Chemical Hazard Prediction**

<u>Course Sponsor</u>	FEMA/CSEPP
<u>Course Description</u>	Thirty-six hour course designed to teach fundamentals of downwind hazard prediction using the Emergency Management Information System (EMIS). The student will receive instruction on the various types of chemical agents and munitions in the Army stockpile.
<u>Course Objectives</u>	Determine appropriate downwind distance hazards for an agent release. Be able to calculate agent cloud arrival and departure times. Be able to critically analyze program results to assure that protective action recommendations and decisions are meaningful and purposeful in mitigating the emergency situation.
<u>NBC Areas of Competency</u>	4, 5, 14, 15, 16, 25
<u>Target Audience</u>	Military/Civilian/both Civilian Emergency Responder Group Firefighters/HAZMAT, Incident Commanders & First Responder Trainers. Emergency Responder Levels Technician/Specialist.
<u>Type of Instruction</u>	Medium Classroom, computer based. Gov/Contractor Contractor
<u>Recommended Class Size</u>	Less than 20
<u>Course Location/Facility Dependent</u>	Yes
<u>Course Availability</u>	Immediately
<u>POC</u>	Mr. Robert Norville
<u>Address</u>	500 C. Street, SW, Suite 629C, Washington, DC 20472
<u>Phone Number</u>	(202) 646-2734
<u>Prerequisites</u>	Computer based course requiring an IBM - compatible 386; Course requires a minimum of 10 students.
<u>Comments</u>	Requires projector screen and computers for students. Does not address nuclear/biological components.

Course Title **Chemical Hazard Prediction for Decision Makers**

<u>Course Sponsor</u>	FEMA/CSEPP
<u>Course Description</u>	Eight to sixteen hour course designed to acquaint attendees with their responsibilities for PAD-making in the event of a chemical agent release. Centered around the Army's Emergency Management Information System (EMIS), the Army's authorized computer hazard prediction modeling program. Course stresses EMIS as a management tool.
<u>Course Objectives</u>	Be able to use the EMIS to effectively use its output for protective action recommendations and protective action decisions.
<u>NBC Areas of Competency</u>	5, 14, 15, 16, 25, 26
<u>Target Audience</u>	
Military/Civilian/both	Civilian
Emergency Responder Group	Firefighters/HAZMAT, Incident Commanders & First Responder Trainers.
Emergency Responder Levels	Technician/Specialist and Incident Command Level.
<u>Type of Instruction</u>	
Medium	Classroom, paperbased.
Gov/Contractor	Contractor
<u>Recommended Class Size</u>	Less than 50
<u>Course Location/ Facility Dependent</u>	Yes
<u>Course Availability</u>	Immediately
<u>POC</u>	Mr. Robert Norville
<u>Address</u>	500 C. Street, SW, Suite 629C, Washington, DC 20472
<u>Phone Number</u>	(202) 646-2734
<u>Prerequisites</u>	Students must have an understanding of chemical agents and munitions, and the effects of chemical agents.
<u>Comments</u>	Projector screen required. Does not address nuclear/biological components.

Course Title **Chemical Stockpile Agent Characteristics**

Course Sponsor FEMA/CSEPP
Course Description Video program that teaches sophisticated information about military chemical weapons in a manner every adult can understand. Length: 17 minutes

Course Objectives Ensure that those responsible for protecting U.S. civilians in the event of an incident involving a chemical warfare agent are prepared to offer the aid that will be needed.

NBC Areas of Competency 1, 2, 6, 14

Target Audience
Military/Civilian/both Civilian
Emergency Responder Group Firefighters/HAZMAT, Law Enforcement & First Responder Trainers.
Emergency Responder Levels Awareness Level and Operations Level.

Type of Instruction
Medium Video.
Gov/Contractor Contractor

Recommended Class Size Less than 100

Course Location/ Facility Dependent No

Course Availability Immediately

POC Mr. Robert Norville
Address 500 C. Street, SW, Suite 629C, Washington, DC 20472
Phone Number (202) 646-2734

Comments Requires video cassette player for presentation. Does not address nuclear/biological component of NBC.

Course Title **CSEPP Chemical Awareness**

Course Sponsor FEMA/CSEPP

Course Description This 6-8 hour course is designed to familiarize participants with the chemical stockpile and its components, the Chemical Stockpile Disposal Program and the Chemical Stockpile Emergency Preparedness Program.

- Course Objectives**
- a. Describe the types of agents stored in each location.
 - b. Describe major emergency planning steps for protecting people in the event of a chemical incident.
 - c. Describe how to avoid contact with chemical agents.
 - d. Describe effects of weather and terrain on the movement of chemical agents.
 - e. Describe the symptoms of chemical agent exposure.

NBC Areas of Competency 2, 6, 8, 8a, 16, 26

Target Audience

Military/Civilian/both	Both
Emergency Responder Group	Firefighters/HAZMAT, Law Enforcement & First Responder Trainers.
Emergency Responder Levels	Awareness Level and Operations Level.

Type of Instruction

Medium	Classroom.
Gov/Contractor	Contractor

Course Location/ Facility Dependent No

POC Mr. Robert Norville
Address 500 C. Street, SW, Suite 629C, Washington, DC 20472
Phone Number (202) 646-2734
Comments Does not address nuclear/biological components.

Course Title **Emergency Management Information System (EMIS)**

Course Sponsor FEMA/CSEPP

Course Description From eight to thirty-two hours depending on the audience and levels of proficiency required. The course is structured to closely match the EMIS access levels of various Emergency Operations Center personnel. Each student will receive training based on his/her access privileges in EMIS and all lower levels. All students will receive an overview of the program.

Course Objectives Proficiency in the use of the Emergency Management Information System

NBC Areas of Competency 5, 11, 16

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Firefighters/HAZMAT, Incident Commanders & First Responder Trainers.
Emergency Responder Levels	Technician/Specialist Level and Senior Management.

Type of Instruction

Medium	Classroom, computer based.
Gov/Contractor	Contractor

Recommended

Class Size Less than 20

Course Location/
Facility Dependent Yes

Course Availability Immediately

POC Mr. Barry Willmington

Address U.S. Army Defense & Ammunition Center, Savanna, IL 61074

Phone Number (815) 273-8915

Prerequisites Proficiency in Microsoft Windows and the use of a mouse are required.

Comments Course location requires a projector screen and a Sun Server networked to 11 or more IBM compatible 80386 or better computers (1 for each student and 1 for instructor). Minimum of 10 students required for class.

Course Title **Emergency Planner's Companion**

Course Sponsor FEMA/CSEPP
Course Description A suite of seven CD-ROM titles designed to familiarize planner with and evaluate their competency in critical areas of the emergency planning process. Areas Protective Action, Emergency Response Functions, Requirements for Alert and Notification and Communications Systems, Decontamination and Emergency Medical Support, and Emergency Worker Operations. Length: Self-paced

Course Objectives Familiarize planners with critical areas of emergency planning. Evaluate competency of planners to identify critical areas of the emergency planning process.

NBC Areas of Competency 11, 16, 17, 17a, 25, 26

Target Audience
Military/Civilian/both Civilian
Emergency Responder Group Public Officials.
Emergency Responder Levels Senior Management Level.

Type of Instruction
Medium Paper based, computer based (CD-ROM).
Gov/Contractor Contractor

Course Location/ Facility Dependent No

POC Mr. Robert Norville
Address 500 C. Street, SW, Suite 629C, Washington, DC 20472
Phone Number (202) 646-2734

Comments Modifications based on the threat of non-stockpile agents may be required. Course location requires 486/66 MHz, Windows 3.1x 16 MB RAM, CD ROM Drive Speed 4x, 16 bit sound card with external speakers and sound blaster compatible.

Course Title **How Do I Know?**

Course Sponsor FEMA/CSEPP
Course Description This is a video and accompanying guide. The video describes and illustrates the testing and evaluation that went into assessing personal protective equipment (PPE) such as clothing, respirators, and monitoring devices, for use by emergency responders; and addresses federal regulatory requirements that have helped shape CSEPP emergency responder operations. The guide contains a collection of information sheets dealing with PPE that were prepared for use in CSEPP technical training courses on PPE, decontamination procedures, and medical care of chemical casualties. The guide may also serve as a stand-alone Length: 33 minutes

Course Objectives Allow decision makers to understand what PPE is available, what are the pros and cons of making one selection versus another, what do the items cost, and where can more information be obtained.

NBC Areas of Competency 7, 9, 13, 19, 20

Target Audience
Military/Civilian/both Both
Emergency Responder Levels Awareness, Operations, Technician/Specialist Level.

Type of Instruction
Medium Paperbased, and video.
Gov/Contractor Contractor

Course Location/
Facility Dependent No

Course Availability Immediately

POC Mr. Robert Norville
Address 500 C. Street, SW, Suite 629C, Washington, DC 20472
Phone Number (202) 646-2734

Comments Course subtitled: A Guide to the Selection of Personal Protective Equipment for Use in Responding to A Release of Chemical Warfare Agents. Required video cassette player. Does not address nuclear/biological components.

<u>Course Title</u>	Limited Exposure
<u>Course Sponsor</u>	FEMA/CSEPP
<u>Course Description</u>	Designed to clarify concepts that relate to the effectiveness of protective actions. (Course length not given)
<u>Course Objectives</u>	Understand the following concepts: Exposure and concentration over-time.
<u>NBC Areas of Competency</u>	7, 8
<u>Target Audience</u>	
<i>Military/Civilian/both</i>	Civilian
<i>Emergency Responder Group</i>	Firefighters/HAZMAT, Law Enforcement,
<i>Emergency Responder Levels</i>	Awareness Level.
<u>Type of Instruction</u>	
<i>Medium</i>	Video.
<i>Gov/Contractor</i>	Contractor
<u>Course Location/ Facility Dependent</u>	No
<u>Course Availability</u>	Immediately
<u>POC</u>	Mr. Robert Norville
<u>Address</u>	500 C. Street, SW, Suite 629C, Washington, DC 20472
<u>Phone Number</u>	(202) 646-2734
<u>Comments</u>	Does not address nuclear/biological components.

Course Title **Management of Chemical Warfare Injuries**

Course Sponsor FEMA/CSEPP
Course Description Initially designed for military use, this course is designed to aid all medical personnel in the treatment of chemical agent casualties. This course is issued in CD-ROM format.
Length: self-paced

Course Objectives a. Describe technical information for nerve, blister, lung, cyanide and riot control agents.
b. Diagnose and treat chemical agent casualties.

NBC Areas of Competency 13, 17, 19, 21

Target Audience
Military/Civilian/both Both
Emergency Responder Group Firefighters/HAZMAT, Emergency Medical Services
Emergency Responder Levels Operations Level, Technician/Specialist Level, EMS Level.

Type of Instruction
Medium CD ROM.
Gov/Contractor Both

Course Location/ Facility Dependent No

Course Availability Immediately

POC Mr. Robert Norville
Address 500 C. Street, SW, Suite 629C, Washington, DC 20472
Phone Number (202) 646-2734
Comments Copies can be ordered from the National Audiovisual Center (703) 487-4630. Does not address the nuclear/biological components.

Course Title **Personal Protective Equipment**

<u>Course Sponsor</u>	FEMA/CSEPP
<u>Course Description</u>	This course provides knowledge about the role of personal protective equipment (PPE) in the CSEPP emergency response, different types of PPE, how to use and maintain PPE and factors that effect work rules, policies and procedures relating to use of PPE. Length: 8 hours
<u>Course Objectives</u>	<ol style="list-style-type: none">a. Personal protection by donning PPE.b. Removal of PPE without contaminating oneself.c. Recognizing the limitations of PPE.d. Know when and how to use chemical detector kits.e. Know CSEPP, state and local work rules, policies and procedures.
<u>NBC Areas of Competency</u>	7, 8, 12, 18
<u>Target Audience</u>	
<i>Military/Civilian/both</i>	Both
<i>Emergency Responder Group</i>	Firefighters/HAZMAT, Law Enforcement
<i>Emergency Responder Levels</i>	Operations Level, Technician/Specialist Level, EMS Level.
<u>Type of Instruction</u>	
<i>Medium</i>	Classroom and Practical Exercise.
<i>Gov/Contractor</i>	Contractor
<u>Course Location/ Facility Dependent</u>	No
<u>POC</u>	Mr. Robert Norville
<u>Address</u>	500 C. Street, SW, Suite 629C, Washington, DC 20472
<u>Phone Number</u>	(202) 646-2734
<u>Prerequisites</u>	Certification at medical competency, agreement to remain clean shaven for the duration of the course.
<u>Comments</u>	Does not address nuclear/biological components.

Course Title **Response Phase Decontamination for CSEPP**

<u>Course Sponsor</u>	FEMA/CSEPP
<u>Course Description</u>	A course designed to prepare personnel to perform Response Phase Decontamination for the Chemical Stockpile Emergency Preparedness Program. Length: 8 hours
<u>Course Objectives</u>	a. Lifesaving and minimization of personnel injury. b. Preventing contamination spread.
<u>NBC Areas of Competency</u>	9, 20, 22, 23
<u>Target Audience</u>	
<i>Military/Civilian/both</i>	Both
<i>Emergency Responder Group</i>	Firefighters/HAZMAT, Emergency Medical Services
<i>Emergency Responder Levels</i>	Awareness Level, Operations Level, Technician/Specialist Level, EMS Level.
<u>Type of Instruction</u>	
<i>Medium</i>	Classroom and Practical Exercise.
<i>Gov/Contractor</i>	Contractor
<u>Course Location/ Facility Dependent</u>	No
<u>POC</u>	Mr. Robert Norville
<u>Address</u>	500 C. Street, SW, Suite 629C, Washington, DC 20472
<u>Phone Number</u>	(202) 646-2734
<u>Comments</u>	Does not address nuclear/biological components.

Course Title **Technical Planning and Evaluation**

Course Sponsor FEMA/CSEPP

Course Description This course is designed to aid planners and decision makers in developing emergency response plans and preparing strategies for response to a chemical emergency. Length of course not provided

Course Objectives

- a. Identify the physical and chemical properties of chemical agents that are important to the protective action decision making process and development of protective action strategies.
- b. Identify the potential human health effects of chemical agents that are important to the decision making process and development of protective action strategies.
- c. Define and illustrate the concepts of exposure, dose and risk and how they elate to the protective action decision making process.
- d. Describe the specific planning tools developed within CSEPP for protective action planning.
- e. Define evacuation and sheltering as protective actions for CSEPP.

NBC Areas of Competency 16, 25, 26

Target Audience

Military/Civilian/both

Both

Emergency Responder Group

Firefighters/HAZMAT, Law Enforcement

Emergency Responder Levels

Awareness Level, Operations Level, Technician/Specialist Level, EMS Level.

Type of Instruction

Medium

Paper based, other (Computer Based).

Gov/Contractor

Both

Course Location/
Facility Dependent

No

POC

Mr. Robert Norville

Address

500 C. Street, SW, Suite 629C, Washington, DC 20472

Phone Number

(202) 646-2734

Comments

Does not address nuclear/biological components.

Course Title **Use of Auto-Injectors by Civilian Emergency Medical Personnel to Treat Civilians Exposed to Nerve Agent**

Course Sponsor FEMA/CSEPP

Course Objectives a. Identify antidotes to be used and when to use them.
 b. Demonstrate the use of auto-injectors.
 c. Recognize adverse reactions to antidotes.
Length: 4 hours

NBC Areas of Competency 13, 19, 20

Target Audience
Military/Civilian/both Civilian
Emergency Responder Group Firefighters/HAZMAT, Emergency Medical Services (e.g., EMT, Paramedic, etc.)
Emergency Responder Levels Awareness Level, Operations Level, Technician/Specialist Level, EMS Level and Senior Management Level.

Type of Instruction
Medium Classroom.
Gov/Contractor Contractor

Course Location/ Facility Dependent No

POC Mr. Robert Norville
Address 500 C. Street, SW, Suite 629C, Washington, DC 20472
Phone Number (202) 646-2734

Comments Video, wall charts, and pocket cards are also available, depending on whether this is taught for 1st Responders as a stand-alone course or as part of ACT FAST. Does not address nuclear/biological components of NBC.





**FEDERAL EMERGENCY MANAGEMENT AGENCY
(FEMA)
EMERGENCY MANAGEMENT INSTITUTE (EMI)**

Course Title **Advanced Radiation Incident Operations (ARIO)**

Course Sponsor FEMA/Emergency Management Institute
Course Description ARIO is a 4 1/2 day performance based course that builds on the knowledge, skills, and abilities of the Radiological Emergency Response Operations Course which will enable participants to better manage and plan for radiological operations and use specialized instruments that might be available to a responder.

Course Objectives

- a. Integrate the radiological response team with multi-agency response structure.
- b. Manage information (interpret, prioritize, disseminate) from multiple sources.
- c. Analyze hazards through sampling and monitoring, and assess health and safety risks to develop operational priorities.
- d. Prioritize and implement operational goals in accordance with the radiological field response plan and applicable Federal regulations and guidelines.

NBC Areas of Competency 1-26

Target Audience

<i>Military/Civilian/both</i>	Both
<i>Emergency Responder Group</i>	All Emergency Management Groups
<i>Emergency Responder Levels</i>	Federal, State, local and private sector.

Type of Instruction

<i>Medium</i>	Classroom.
<i>Gov/Contractor</i>	Government

Recommended Class Size 24

Course Location/ Facility Dependent Yes.

Course Availability Within 30 days

Cost (Does not include billeting) No cost to participants.

POC Mr. Jose Cortes

Address Mount Weather Conference Center, 19844 Blue Ridge Mountain Road, Bluemont, VA 20135

Phone Number (540) 542-2548

Comments Focus of course is on terrorism.

Course Title **Consequences of Terrorism, Integrated Emergency Management Course**

Course Sponsor FEMA/Emergency Management Institute
Course Description The course is 40 hours in duration. The course focuses primarily on how local, State, and Federal agencies coordinate their response and recovery efforts relating to an act of terrorism. The course stresses the importance of coordination, communications, and cooperation of all political and response-oriented entities, including State and Federal agencies.

- Course Objectives**
- a. Describe the Integrated Emergency Management System (IEMS).
 - b. Describe the consequences of a terrorist act.
 - c. Describe the role of Federal, State and local governments in assisting communities that have been affected by an act of terrorism.
 - d. Describe the role of the media and public information.
 - e. Identify mass care issues.
 - f. Describe the capabilities, limitations, and needs of the following assets: law enforcement, fire service, emergency medical service, and public works.
 - g. Describe critical incident stress.

NBC Areas of Competency 1, 5, 6, 8a, 11, 16

Target Audience
Military/Civilian/both Both
Emergency Responder Group Firefighter/HAZMAT, Law Enforcement, Emergency Services Technician (e.g., EMT, Paramedic, etc.)
Emergency Responder Levels Operations Level.

Type of Instruction
Medium Classroom, practical exercise, and video.
Gov/Contractor Government

Recommended Class Size Less than 50

Course Location/Facility Dependent No

Course Availability Within 30 days

Cost (Does not include billeting) The course is given at no charge to the individual or organization.

POC Mr. Ray Chevalier
Address Emergency Management Institute, 16825 S. Seton Avenue, Emmitsburg, MD 21727
Phone Number (301) 447-1187
Comments Requires video cassette player.

Course Title **Emergency Response to Criminal/Terrorist Incidents**

Course Sponsor FEMA/Emergency Management Institute

Course Description The course is six hours in duration. The purpose of the course is to:

- a. Increase local emergency responder's ability to preserve evidence while performing rescue and fire suppression activities.
- b. Foster a cooperative working relationship when working together in responding to criminal incidents.
- c. Prepare for incidents when Federal responders are involved.

Course Objectives At the completion of the course, participants will be able to:

- a. Recognize when incident sites may also be crime sites.
- b. Describe types and identify potential targets of criminal activity.
- c. Recognize potential hazards at crime scenes.
- d. Perform safe operations at criminal incident sites including rescuing and treating victims and preserving property.
- e. Stabilize the crime scene and maximize evidence preservation.
- f. List appropriate actions and actions to avoid at a criminal incident site.
- g. Describe the needs, roles, and responsibilities of law enforcement and non-law enforcement responders at a criminal incident site.
- h. Explain when and why Federal agencies get involved and how to interact with them.

NBC Areas of Competency 1, 4, 10, 10a, 11, 16, 21, and 26

Target Audience

<i>Military/Civilian/both</i>	Civilian
<i>Emergency Responder Group</i>	Firefighter/HAZMAT, Law Enforcement, Emergency Services Technician (e.g., EMT, Paramedic, etc.)
<i>Emergency Responder Levels</i>	Operations Level.

Type of Instruction

<i>Medium</i>	Classroom, practical exercise, and video.
<i>Gov/Contractor</i>	Both

Recommended Class Size Less than 30

Course Location/ Facility Dependent No

Course Availability Now

Cost (Does not include billeting) The course is given at no charge to the individual or organization.

POC Mr. Tom Marlowe

Address Emergency Management Institute, 16825 S. Seton Avenue, Emmitsburg, MD 21727

Phone Number (301) 447-1060

Comments This course was designed to be delivered to the responders in a community/ jurisdiction. It will work best when delivered in that environment. If multiple jurisdictions are represented in the course, they should be grouped by jurisdiction. Course requires a video cassette player.

Course Title **Exercise Design Course**

<u>Course Sponsor</u>	FEMA/Emergency Management Institute
<u>Course Description</u>	Part of a broader training approach to teach performance-based education to emergency management personnel how to design and conduct emergency exercises within the context of a community exercise program. Emphasis is on design of a functional exercise which will lead to the capability of a jurisdiction to conduct a full-scale exercise. Length: 16 hours.
<u>Course Objectives</u>	<ol style="list-style-type: none">a. Importance of exercise designb. Design a progressive exercise program for a communityc. Conduct a tabletop exercise in their communityd. Understand physical requirements and roles for a functional exercisee. Design an exercise evaluation form and evaluation methodology
<u>NBC Areas of Competency</u>	25, 26
<u>Target Audience</u>	
<i>Military/Civilian/both</i>	Civilian
<i>Emergency Responder Group</i>	Other: Emergency Management professionals (e.g., EMT, Paramedic, etc.)
<i>Emergency Responder Levels</i>	EMS Level.
<u>Type of Instruction</u>	
<i>Medium</i>	Classroom, paper based and video.
<i>Gov/Contractor</i>	Government
<u>Recommended</u>	
<u>Class Size</u>	Less than 50
<u>Course Location/ Facility Dependent</u>	No
<u>Cost (Does not include billeting)</u>	No Cost
<u>POC</u>	Lowell Ezersky
<u>Address</u>	Emergency Management Institute 16825 S. Seton Ave. Emmitsburg, MD 21727
<u>Phone Number</u>	(301)447-1355
<u>Comments</u>	This course is offered under EMI's non-resident instruction program.

Course Title **Exercise Evaluation Course**

Course Sponsor FEMA/Emergency Management Institute
Course Description A 2-day course which provides the base for evaluation of multi-hazard, multiple-jurisdiction exercises in which State and local governments participate. The focus is on the evaluation process to serve the needs of individuals who manage the exercise evaluation function in the field of emergency management.

- Course Objectives**
- a. Describe the need for a systematic approach to exercise evaluation
 - b. List key steps in identifying and organizing an effective exercise evaluation team
 - c. Summarize the components of the exercise evaluation package and the process for evaluator team orientation and training.
 - d. Describe and/or demonstrate skills required during the evaluation of an exercise
 - e. Describe and/or demonstrate key post-exercise evaluation activities
 - f. Identify the key tasks in each of the three phases of the exercise evaluation process

NBC Areas of Competency 25,26

Target Audience
Military/Civilian/both Civilian
Emergency Responder Group First Responder Trainers
Emergency Responder Levels Technician/Specialist Level.

Type of Instruction
Medium Classroom.
Gov/Contractor Government

**Course Location/
Facility Dependent** No

Cost (Does not include billeting) No Cost

POC Lowell Ezersky
Address Emergency Management Institute
16825 S. Seton Avenue
Emmitsburg, MD 21727

Phone Number (301)447-1355
Comments Delivered through EMI's State Training Offices at the local level.

Course Title

Fundamentals Course for Radiological Response Teams

Course Sponsor

FEMA/Emergency Management Institute

Course Description

This 3 1/2 day course is designed to qualify participants as radiological response team members by providing them with the knowledge and skills needed to support planning, emergency, and recovery activities in the event of a radiological incident.

Course Objectives

- a. Classify the roles and responsibilities of each component of the Radiological Protection System (RPS).
- b. Explain the radiation characteristics of commonly shipped radionuclides and the radiation hazard involved.
- c. Specify the factors that will affect biological response to radiation and describe the risk in various types of radiation incidents.
- d. Use the table "Response of Radiation Monitoring Instruments to Normalized Risk Quantities of Radionuclides" and knowledge of radiological instruments to select and use radiological instruments for assessment of hypothetical radiation incidents.
- e. Use the Fallout Exposure Rate Prediction Tables to access the radiological hazards associated with a hypothetical nuclear detonation by terrorists.
- f. Given descriptions of the radiation hazards, develop strategies for exposure control, contamination control, and decontamination actions in hypothetical radiation incidents.
- g. Evaluate team effectiveness during practical radiological response exercise.

NBC Areas of Competency

1, 2, 2b, 3-9, 11-26

Target Audience

Military/Civilian/both

Civilian

Emergency Responder Group

Firefighter/HAZMAT, Public Works, First Responder Trainers

Emergency Responder Levels

Technician/Specialist Level.

Type of Instruction

Medium

Classroom, video, practical exercise.

Gov/Contractor

Both

Recommended

Class Size

Less than 30

Course Location/

Facility Dependent

No

Course Availability

Within 30 days

Cost (Does not

include billeting)

The course is given at no charge to the individual.

POC

Mr. Jose Cortes

Address

Mount Weather Conference Center, 19844 Blue Ridge Mountain Road, Bluemont, VA 20135

Phone Number

(540) 542-2548

Comments

Course requires a video cassette player for presentation. Does not address chemical/biological components.

Course Title **Fundamentals Course for Radiological Monitors**

Course Sponsor FEMA/Emergency Management Institute
Course Description This eight hour course is designed to qualify, as radiological monitors, emergency responders who may be the first to arrive on the scene of a radiological accident or who may serve in an emergency service role following a radiological emergency. The course is designed to provide initial responders with the capability to take immediate protective action and to obtain further assistance as necessary. The course provides "hands-on" experience with certain radiological instruments.

Course Objectives At the conclusion of the course, the participant will be able to:

- Use, maintain, and accurately read radiation detection instruments.
- Identify and report radiation exposure rates and doses.
- Identify warning signs, labels, and placards which indicate radioactive materials may be present.
- Locate the presence of radioactive materials in order to prevent the spread of contamination.
- List basic biological effects of exposure to radiation.
- List basic protective actions used to limit exposure to radiation and procedures to prevent the spread of contamination.

NBC Areas of Competency 1, 2, 2b, 4-8, 12-15, 17, 17a, 18-23, 25 and 26

Target Audience

<i>Military/Civilian/both</i>	Civilian
<i>Emergency Responder Group</i>	Firefighter/HAZMAT, Law Enforcement Public Works, First Responder Trainers
<i>Emergency Responder Levels</i>	Technician/Specialist Level.

Type of Instruction

<i>Medium</i>	Classroom, video, practical exercise.
<i>Gov/Contractor</i>	Both

Recommended Class Size Less than 30

Course Location/ Facility Dependent No

Course Availability Within 30 days

Cost (Does not include billeting) The course is given at no charge to the individual or organization.

POC Mr. Jose Cortesl
Address Mount Weather Conference Center, 19844 Blue Ridge Mountain Road, Bluemont, VA 20135

Phone Number (540) 542-2548

Comments Course requires video cassette player for presentation. Does not address chemical/biological components.

Course Title **Incident Command System/Emergency Operations Center (ICS/EOC) Interface**

Course Sponsor FEMA/Emergency Management Institute
Course Description The course is 12 hours in duration and is designed to enable participants to develop ICS/EOC interface implementation strategies or action plans for their communities. The course reviews the ICS and EOC models of emergency management operations, including coordination, communication, and chief executive decision making. It enhances knowledge and skills needed for clarifying roles, responsibilities, and relationships prior to disaster through small-group and large-group exercises.

- Course Objectives**
- a. Describe the principles of the Incident Command System (ICS), including its purpose, key roles and responsibilities.
 - b. Describe the principles of Emergency Operating Center (EOC), including its purpose, key roles and responsibilities.
 - c. Using scenarios, analyze the ICS and EOC systems and list various interface issues.
 - d. Apply ICS/EOC interface concepts in an exercise situation.
 - e. Develop an ICS/EOC interface action plan for his or her community.

Target Audience

<i>Military/Civilian/both</i>	Civilian
<i>Emergency Responder Group</i>	Other: Emergency managers and responders
<i>Emergency Responder Levels</i>	EMS Level.

Type of Instruction

<i>Medium</i>	Classroom, video and practical exercise.
<i>Gov/Contractor</i>	Government

Recommended
Class Size Less than 50

Course Location/
Facility Dependent No

Course Availability Within 30 days

POC Stephen Booth
Address Emergency Management Institute
16825 S. Seton Ave.
Emmitsburg, MD 21727

Phone Number (301) 447-1249

Comments This course is offered under EMI's non-resident instruction program.

Course Title **Incident Command System for Law Enforcement Agencies**

Course Sponsor FEMA/Emergency Management Institute
Course Description Identify elements of Incident Command System, concepts, principles, history and laws. Responsibilities of the Incident Commander and his management techniques. Discussion of Division and Group functions and General Staff functions. Length: 13 hours.

Course Objectives

- a. Define Incident Command System
- b. Identify and take appropriate actions during the stabilization phase of an incident
- c. Establish a command post and staging area
- d. Describe and apply Division and Group command structure elements.
- e. Describe purpose and responsibilities of Operations, Planning, Logistics, and Finance/Administration functions.

NBC Areas of Competency 1, 2, 2b, 4-8, 12-15, 17, 17a, 18-23, 25 and 26

Target Audience

<i>Military/Civilian/both</i>	Civilian
<i>Emergency Responder Group</i>	Law Enforcement, First Responder Trainers
<i>Emergency Responder Levels</i>	EMS Level, Senior Management Level.

Type of Instruction

<i>Medium</i>	Classroom, practical exercise.
<i>Gov/Contractor</i>	Government

Recommended Class Size Less than 50

Course Location/ Facility Dependent No

Course Availability Immediately

POC Stephen Borth
Address Emergency Management Institute
16825 S. Seton Ave.
Emmitsburg, MD 21727

Phone Number (301)447-1249

Comments This course is offered under EMI's non-resident instruction program.

Course Title **Incident Command System for Public Works**

Course Sponsor FEMA/Emergency Management Institute
Course Description Identify elements of Incident Command System, concepts, principles, history and laws. Responsibilities of the Incident Commander and his management techniques. Discussion of Division and Group functions and General Staff functions. Length: 14 hours.

- Course Objectives**
- a. Define Incident Command System
 - b. Identify and take appropriate actions during the stabilization phase of an incident.
 - c. Establish a command post and staging area
 - d. Describe and apply Division and Group command structure elements.
 - e. Describe purpose and responsibilities of Operations, Planning, Logistics, and Finance/Administration functions

Target Audience

<i>Military/Civilian/both</i>	Civilian
<i>Emergency Responder Group</i>	Public Works
<i>Emergency Responder Levels</i>	EMS Level, Senior Management Level.

Type of Instruction

<i>Medium</i>	Classroom, paper based, video and practical exercise.
<i>Gov/Contractor</i>	Government

Recommended
Class Size Less than 50

Course Location
Facility Dependent No

Course Availability Immediately

POC Stephen Borth
Address Emergency Management Institute
16825 S. Seton Avenue
Emmitsburg, MD 21727

Phone Number (301)447-1249

Comments This course is offered under EMI's non-resident instruction program.

Course Title **Mass Fatalities Incident Course**

Course Sponsor FEMA/Emergency Management Institute

Course Description This course prepares state and local personnel and other responsible agencies and professionals to handle mass fatalities effectively and to work with the survivors in an emergency or disaster. This course is 16.5 hours in duration.

Course Objectives To prepare response personnel and other responsible professionals to handle a mass fatalities incident effectively by properly caring for the dead and the living - both responders and survivors

NBC Areas of Competency 1,2,4,6,7,8,8a,9,12,13,14,15,17,17a,19,20,21,22,2

Target Audience

<i>Military/Civilian/both</i>	Both
<i>Emergency Responder Group</i>	Firefighter/HAZMAT, Incident Commanders, Law Enforcement, First Responder Trainers
<i>Emergency Responder Levels</i>	Operations Level who must operationalize the ICS/EOC interface.

Type of Instruction

<i>Medium</i>	Classroom, video and practical exercise.
<i>Gov/Contractor</i>	Both

Recommended

Class Size Less than 50

Course Location/ Facility Dependent No

Course Availability Within 30 days

POC Sam Isenberger

Address Emergency Management Institute
16825 S. Seton Avenue
Emmitsburg, MD 21727

Phone Number (301)447-1071

Comments This course is offered under EMI's non-resident instruction program. Does not cover the NBC portions of a Weapon of Mass Destruction.

Course Title **Radiological Emergency Response Operations (RERO)**

<u>Course Sponsor</u>	FEMA/Emergency Management Institute
<u>Course Description</u>	RERO is a 5 1/2 day course that provides a practical performance oriented approach to team response that accomplishes the five phases of the Radiological cleanup of radioactive material.
<u>Course Objectives</u>	At the conclusion of the course, the participant will be able to respond as a radiological team member to a variety of radiological accidents in five operational phases: a. Initial communication. b. On-site communication. c. Initial response operations. d. Exclusion area operations. e. Termination of response operations.
<u>NBC Areas of Competency</u>	1-9, 11-26
<u>Target Audience</u>	
<i>Military/Civilian/both</i>	Both
<i>Emergency Responder Group</i>	All Emergency Service, Management Groups,
<i>Emergency Responder Levels</i>	Federal, State, local and private sector.
<u>Type of Instruction</u>	
<i>Medium</i>	Classroom, video and practical exercise.
<i>Gov/Contractor</i>	Government
<u>Recommended</u>	
<u>Class Size</u>	24
<u>Course Location/ Facility Dependent</u>	Yes.
<u>Course Availability</u>	Within 30 days
<u>Cost (Does not include billeting)</u>	No cost to participants.
<u>POC</u>	Mr. Jose Cortes
<u>Address</u>	Mount Weather Conference Center 19844 Blue Ridge Mountain Road, Bluemont, VA 20135
<u>Phone Number</u>	(540) 542-2548
<u>Comments</u>	Does not address chemical/biological components.





**FEDERAL EMERGENCY MANAGEMENT AGENCY
(FEMA)
NATIONAL FIRE ACADEMY (NFA)**

Course Title **Advanced Life Support Response to Hazardous Materials Incidents**

<u>Course Sponsor</u>	FEMA/National Fire Academy
<u>Course Description</u>	The course is directed to paramedics who are tasked with providing medical support at HAZMAT incidents. The course assumes that participants are trained to the "first responder-operations level" as defined by NFPA 472 and 29 CFR 1910.120. Length: 2 weeks
<u>Course Objectives</u>	Given a scenario on video and working in small groups, the participants will be able to identify the product, characterize the incident, and analyze response activities of the agency involved. Given a list of alternatives and working individually, the participants will: <ol style="list-style-type: none">Select the correct definition of standard of care.Identify at least one influence on the hazardous standard of care.Identify the correct definitions for liability, negligence, gross negligence, and malfeasance.Select at least one key component of 29 CFR 1910.120 and 40 CFR 311.
<u>NBC Areas of Competency</u>	2, 3-7, 8, 9, 12-15, 17, 17a, 18-23, 26
<u>Target Audience</u>	
<i>Military/Civilian/both</i>	Civilian
<i>Emergency Responder Group</i>	Emergency Medical Services (e.g., EMT, Paramedic, etc.)
<i>Emergency Responder Levels</i>	Operations Level, Technician/Specialist Level.
<u>Type of Instruction</u>	
<i>Medium</i>	Classroom, paper based, video and practical exercise.
<i>Gov/Contractor</i>	Government
<u>Recommended</u>	
<u>Class Size</u>	Less than 25
<u>Course Location/ Facility Dependent</u>	No
<u>Course Availability</u>	Immediately
<u>Cost (Does not include billeting)</u>	The course is given at no charge to the individual or organization
<u>POC</u>	Mr. Jeff Dyar
<u>Address</u>	National Fire Academy, 16825 S. Seton Avenue, Emmittsburg, MD 21727
<u>Phone Number</u>	(301) 447-1333
<u>Prerequisites</u>	Attended Basic Life Support Response to Hazardous Materials Incidents.
<u>Comments</u>	Course requires video cassette player. Does not address nuclear/biological components. Does not address chemical or biological components of the Nuclear, Biological and Chemical Agents (NBC) of Weapons of Mass Destruction (WMD).

Course Title **Basic Life Support and Hazardous Materials Response**

Course Sponsor FEMA/National Fire Academy
Course Description To assist the participant in understanding and complying with federal regulations and national recommendations concerning emergency medical response to hazardous materials incidents. Length: 16 hours.

Course Objectives

- a. Identify mechanisms of harm and injury from hazardous substances and self-protection.
- b. Describe the general principles of toxicology; respiratory, dermal, and systemic toxicology.
- c. Describe on-site medical surveillance.
- d. Describe decontamination during medical emergencies.
- e. Describe ingestion injuries.

NBC Areas of Competency 2, 4-8, 12,-14, 17, 17a, 19, 20, 22, 23

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Emergency Medical Services (e.g., EMT, Paramedic, etc.)
Emergency Responder Levels	Operations Level, Technician/Specialist Level.

Type of Instruction

Medium	Classroom, paperbased, video and practical exercise.
Gov/Contractor	Government

Recommended Class Size Less than 25

Course Location/
Facility Dependent No

Course Availability Immediately

Cost (Does not include billeting) No Cost

POC Mr. Jeff Dyar

Address National Fire Academy, 16825 S. Seton Avenue, Emmitsburg, MD 21727

Phone Number (301) 447-1333

Comments Course requires a video cassette player for presentation.

Course Title **Chemistry of Hazardous Materials**

<u>Course Sponsor</u>	FEMA/National Fire Academy
<u>Course Description</u>	This course focuses on the basic knowledge required to evaluate the potential hazards and behaviors of materials considered being hazardous. Examines the reason for the chemical behavior of hazardous materials and is designed to improve decision making, safety operations, and handling. Length: 14 days.
<u>Course Objectives</u>	<ol style="list-style-type: none">The students will be able to describe and explain the basics of chemistry.The students will be able to describe and evaluate the results of fire onto given systems.The students will be able to apply the proper classification system to various hazardous materials.
<u>NBC Areas of Competency</u>	1, 14
<u>Target Audience</u>	
Military/Civilian/both	Civilian
Emergency Responder Group	Firefighter/HAZMAT and First Responder.
Emergency Responder Levels	Technician/Specialist Level.
<u>Type of Instruction</u>	
Medium	Classroom, paper based and practical exercise.
Gov/Contractor	Government
<u>Recommended Class Size</u>	Less than 50
<u>Course Location/ Facility Dependent</u>	No
<u>Course Availability</u>	Immediately
<u>Cost (Does not include billeting)</u>	No Cost
<u>POC</u>	Ms. Angela Weathers
<u>Address</u>	National Fire Academy, 16825 South Seton Avenue, Emmitsburg, MD 21727
<u>Phone Number</u>	(301) 447-1411
<u>Comments</u>	Does not specifically cover Nuclear/Biological and Chemical materials that might be used by a terrorist(s).

Course Title

Command and Control of Fire Department Operations at Target Hazards

Course Sponsor

FEMA/National Fire Academy

Course Description

This course is designed to introduce command officers to the complexities involved in commanding incidents in high risk areas. Students are confronted with a number of fire and rescue incidents that are influenced by high life hazard, multiple exposure, and unusual occupancy risk considerations. Length: 6 days.

Course Objectives

- a. The students will be able to perform a comprehensive size up, a recognition-primed decision making and Post Incident Analysis.
- b. The students will be able to utilize the Incident Command System and perform pre-incident planning.
- c. The students will be able to effectively utilize command staff and communication systems.
- d. The students will be able to properly use available resources and documentation.
- e. The students will be able to successfully mitigate various forms of liability.

NBC Areas of Competency

14, 16, 25, 26

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Incident Commanders and First Responders.
Emergency Responder Levels	Senior Management.

Type of Instruction

Medium	Classroom, paperbased, video and practical exercise.
Gov/Contractor	Government

Recommended

Class Size

Less than 50

Course Location/

Facility Dependent

No

Course Availability

Immediately

Cost (Does not

include billeting)

No Cost

POC

Mr. Hugh Wood

Address

National Fire Academy, 16825 South Seton Avenue, Emmitsburg, MD 21727

Phone Number

(301) 447-3087

Prerequisites

Demonstrated experience in Incident Command and completion of a previous command

Comments

A video cassette player for presentation is optional but not required for additional current topics. This course does not cover NBC type incidents.

Course Title **Command and Control of Operations at Natural and Man-made Disasters**

Course Sponsor FEMA/National Fire Academy
Course Description This course addresses fire and rescue department operations at natural and man made disasters that may require interagency or inter-jurisdictional coordination. Earthquakes, hurricanes, blizzards, civil disturbances, terrorism, hazardous materials releases, tornadoes, and floods are some of the topics covered. Length: 14 Days.

- Course Objectives**
- a. The students will be able to identify and analyze various hazards.
 - b. By using the EOC scope, students will be able to set up evacuation routes, shelter systems, proper communication lines, resource management, and logistics systems.
 - c. The students will be able to properly execute the recovery phase of an incident.

NBC Areas of Competency 1, 2, 2b, 3, 4, 5, 8, 8a, 11, 16, 21, 25, 26

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Incident Commanders and First Responder Trainers.
Emergency Responder Levels	Senior Management.

Type of Instruction

Medium	Classroom, paperbased and practical exercise.
Gov/Contractor	Government

Recommended Class Size Less than 50

Course Location/ Facility Dependent No

Course Availability Immediately

Cost (Does not include billeting) No Cost

POC Mr. Hugh Wood
Address National Fire Academy, 16825 South Seton Avenue, Emmitsburg, MD 21727
Phone Number (301) 447-1087

Prerequisites Demonstrated experience in Incident Command.

Comments Does not specifically cover the use of NBC type materials as a Weapon of Mass Destruction (WMD).

Course Title **Emergency Response to Terrorism: Basic Concepts**

Course Sponsor FEMA/National Fire Academy

Course Description To prepare first responders for terrorist incidents dealing primarily with life safety and self preservation within the areas of biological, nuclear, incendiary, chemical, and explosive attacks. This focus includes information on detection and monitoring for the above mentioned topics. Length: 16 hours

- Course Objectives
1. The student will be able to recognize circumstances that indicate a potential terrorist act.
 2. The student will be able to define the implementation of appropriate self protective measures.
 3. The student will be able to define scene control issues involving isolation, evacuation, and perimeter control associated with terrorist incidents.
 4. The student will be able to recognize, define, and recommend tactical objectives for biological, nuclear, incendiary, chemical and explosive (B-NICE) incidents.
 5. The student will be able to describe command and control issues associated with responder operations at a crime scene.

NBC Areas of Competency 1, 2, 2b, 3-5, 7, 8, 8a, 9, 10, 11, 12, 14, 15

Target Audience

Military/Civilian/both	Both
Emergency Responder Group	Firefighter/HAZMAT Emergency Medical Services (e.g. EMT, Paramedic, etc.) and Law Enforcement.
Emergency Responder Levels	Operations Level.

Type of Instruction

Medium	Classroom, paper based and Video.
Gov/Contractor	Both

Recommended Class Size Less than 50

Course Location/ Facility Dependent No

Course Availability Immediately

Cost (Does not include billeting) The course is given at no charge to the individual or organization

POC Mr. Jeff Dyar

Address National Fire Academy, 16825 S. Seton Avenue, Emmittsburg, MD 21727

Phone Number (301) 447-1333

Comments A video cassette player for presentation is optional but not required for additional current hazards as well. Length: 16 hours.

Course Title **Emergency Response to Terrorism: Incident Management**

Course Sponsor FEMA/National Fire Academy

Course Description This course is designed for Incident Commanders who would be responsible for managing terrorism incidents. It has a heavy planning emphasis and includes recognizing cues that a terrorist incident is in progress. Length: 6 days.

Course Objectives

1. The student will be able to define and recognize terrorist incidents with respect to command issues.
2. The student will be able to plan and operate a terrorist incident with respect to operations, evidence issues, scene control, and hazardous materials/EMS responses.
3. The student will be able to implement the recovery and termination phases effectively.
4. The student will be able to relate full incident commander responsibilities to international and national terrorism incidents.

NBC Areas of Competency 1, 2, 2b, 3, 4, 5, 7, 8, 8a, 10, 10a, 11, 12, 14, 15, 16, 21, 25, 26

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Incident Commanders and First Responder Trainers.
Emergency Responder Levels	Senior Management Level.

Type of Instruction

Medium	Classroom, paper based, practical exercise and Video.
Gov/Contractor	Government

Recommended Class Size Less than 50

Course Location/ Facility Dependent No

Cost (Does not include billeting) No cost

POC Mr. Jeff Dyar
Address National Fire Academy, 16825 South Seton Avenue, Emmitsburg, MD 21727
Phone Number (301) 447-1333
Comments A video cassette player for presentation is required for additional current topics.

Course Title **Emergency Response to Terrorism: Self-Study**

Course Sponsor FEMA/National Fire Academy

Course Description This home study course is designed as a self study, self paced document and is designed to provide the basic awareness training to prepare first responders to safely and effectively respond to incidents of terrorism. Length: 4 Hours.

Course Objectives

1. The student will be able to recognize circumstances that indicate a potential terrorist act.
2. The student will be able to recognize and define indicators from five general agents.
3. The student will be able to define implementation of appropriate self-protective measures.
4. The student will be able to list and explain the need and processes traditionally associated with responding to an emergency.
5. The student will be able to recognize and relate the various roles as stated within the Federal Response Plan, EOPs, PDD-39, and the Stafford Act.

NBC Areas of Competency 1, 2, 2b, 3, 4, 5, 6, 7, 8, 8a, 10, 11, 16

Target Audience

Military/Civilian/both	Both
Emergency Responder Group	Firefighter/HAZMAT, Law Enforcement, .
Emergency Responder Levels	Awareness Level.

Type of Instruction

Medium	Paper based, Internet, practical exercise and Video.
Gov/Contractor	Government

Recommended Class Size Less than 10

Course Location/ Facility Dependent No

Course Availability Immediately

Cost (Does not include billeting) No cost

POC USFA Publication Office

Address 16825 South Seton Avenue, Emmitsburg, MD 21727

Phone Number (301) 447-1660

Course Title **Emergency Response to Terrorism: Tactical Considerations**

Course Sponsor FEMA/National Fire Academy

Course Description In this course the topics of emergency medical, hazardous materials, and incident command issues will be dealt with. Each of the three topics will be a modulated two-day course. Length: 6 days.

Course Objectives To be determined.

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Firefighter/HAZMAT, Emergency Medical Services, Emergency Room Doctors and Nurses and First Responder Trainers.
Emergency Responder Levels	Technician/Specialist Level.

Type of Instruction

Medium	Classroom, paper based and other media to be determined.
Gov/Contractor	Government

Recommended

Class Size Less than 50

Course Location/
Facility Dependent No

Cost (Does not
include billeting) No cost

POC Mr. Jeff Dyar

Address National Fire Academy, 16825 South Seton Avenue, Emmitsburg, MD 21727

Phone Number (301) 447-1333

Prerequisites Demonstrated experience in Incident Command.

Comments This course is not available at this time.

Course Title **Hazardous Materials Incident Management**

Course Sponsor FEMA/National Fire Academy
Course Description This course focuses on the duties and responsibilities of the emergency response personnel who will assume the Incident Commander role in hazardous materials emergencies above the initial response. Based on the current requirements of Title 29 of the Code of Federal Regulations Section 1910.120 (29 CFR 1910.120) and the applicable national standard, the program follows three phases of an incident: preplanning, incident operations, and post incident responsibilities. Length: 6 days.

- Course Objectives
1. The student will be able to successfully pre-plan for a hazardous materials incident or disaster with respect to liability issues.
 2. The student will be able to evaluate the various plans and the enactment of those plans for a possible hazardous materials incident or disaster.
 3. The student will be able to successfully manage a simulated hazardous materials incident or disaster by using proper processes and plans.
 4. The student will be able to successfully describe and justify the steps in various phases and plans within a hazardous materials incident or disaster.

NBC Areas of Competency 3, 8, 25, 26

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Incident Commanders and First Responder Trainers.
Emergency Responder Levels	Senior Management Level.

Type of Instruction

Medium	Classroom, paper based and practical exercise.
Gov/Contractor	Government

Recommended Class Size Less than 50

Course Location/ Facility Dependent No

Course Availability Immediately

Cost (Does not include billeting) No cost

POC Ms Angela Weathers

Address National Fire Academy, 16825 South Seton Avenue, Emmitsburg, MD 21727

Phone Number (301) 447-1411

Prerequisites Applicants must be certified by their departments as operations level personnel acting at the Incident Command Level per 29 CFR 1910.120. Emergency management personnel must be certified by their jurisdiction as part of the BOC staff.

Course Title **Hazardous Materials Operating Site Practices**

Course Sponsor FEMA/National Fire Academy

Course Description This course focuses on the strategies and safe procedures for alleviating the danger at a hazardous materials incident. It concentrates on integrating knowledge about hazardous materials chemistry, storage, transportation, and potential release scenarios about local hazardous materials incident plans and response systems. Length: 14 days.

- Course Objectives
- a. The students will be able to identify and list the major Federal laws, regulations, and standards associated with hazardous materials response.
 - b. Given scenario description, the students will be able to complete all portions of a product data resource information sheet using multiple resource/reference materials.
 - c. The students will be able to define and explain incident estimate, incident analysis, incident assessment, spill typing, and release types.
 - d. The students will be able to determine strategic goals, methods, and priorities.
 - e. The students will be able to choose the proper tactical options for various hazardous materials incidents or disasters.

NBC Areas of Competency 3, 4, 5, 11, 14, 25, 26

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Firefighter/HAZMAT, Incident Commanders and First Responder Trainers.
Emergency Responder Levels	Technician/Specialist Level.

Type of Instruction

Medium	Classroom, paperbased and practical exercise.
Gov/Contractor	Government

Recommended

Class Size Less than 50

Course Location/
Facility Dependent No

Course Availability Immediately

(Does not include
billeting) No cost

POC Ms. Angela Weathers

Address National Fire Academy, 16825 South Seton Avenue, Emmitsburg, MD 21727

Phone Number (301) 447-1411

Comments NFA Chemistry of Hazardous Materials or documented equivalent training is recommended but not required.

Course Title **Incident Command System for Emergency Medical Services**

Course Sponsor FEMA/National Fire Academy
Course Description In this course, students will be introduced to the concepts of EMS, specifically, Incident Command, through lecture and guided discussion. Then they will use scenarios, case studies, graphics, audiovisuals, and role-play to demonstrate/understanding of the concepts. Length: 16 hours

Course Objectives

- a. The students will be able to identify and analyze various hazards.
- b. By using the EOC scope, students will be to set up evacuation routes, shelter systems, proper communication lines, resource management, and logistics systems.
- c. The students will be able to properly execute the recovery phase of an incident.

NBC Areas of Competency 8a, 16

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Emergency Medical Services (e.g., EMT, Paramedic, etc.) and First Responder Trainers.
Emergency Responder Levels	EMS Level.

Type of Instruction

Medium	Classroom, paperbased, video and practical exercise.
Gov/Contractor	Government

Recommended Class Size Less than 50

Course Location/Facility Dependent No

Course Availability Immediately

Cost (Does not include billeting) No cost.

POC Mr. Jeff Dyar

Address National Fire Academy, 16825 South Seton Avenue, Emmitsburg, MD 21727

Phone Number (301) 447-1087

Prerequisites Demonstrated experience in Incident Command.





ENVIRONMENTAL PROTECTION AGENCY (EPA)

Course Title **Air Monitoring for Hazardous Materials (165.4)**

Course Sponsor U.S. EPA
Course Description This 5 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 at hazardous waste sites or accidental hazardous material releases. Evaluation of worker exposure to these releases is emphasized. Topics that are discussed include air monitoring and sampling programs, air monitoring and sampling techniques, air monitoring and sampling equipment, instrument calibration, exposure guidelines, air dispersion modeling, and health and safety considerations. The course includes operating procedures for specific air monitoring and sampling equipment, as well as strategies for air monitoring and sampling at abandoned hazardous waste sites and for accidental releases of hazardous chemicals. Instructional methods used are lectures, class problem-solving sessions, laboratory and field exercises with hands-on use of instruments.

- Course Objectives**
- a. Demonstrate the proper use of the following air monitoring and sampling equipment:
 - Oxygen monitors
 - Toxic gas monitors
 - Flame ionization detectors
 - Sampling pumps and collection media
 - Direct-reading aerosol monitors
 - b. Identify the operational parameters, limitations, and data interpretation requirements for the instruments listed above.
 - c. Identify the factors to be considered in the development of air monitoring and sampling plans.
 - d. Discuss the use of air monitoring data for the establishment of personnel and operations health and safety requirements.

NBC Areas of Competency 18

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Hazardous Waste Site Workers, Environmental Response Personnel
Emergency Responder Levels	Technician/Specialist Level

Type of Instruction

Medium	Classroom, practical exercise, group .
Gov/Contractor	Contractor

Recommended Class Size Less than 30

Course Location/ Facility Dependent No

Course Availability Immediately

POC Mr. Bruce Potoka
Address Environmental Response Training Program, U.S. EPA, 26 W. Martin Luther King Drive (B-3), Cincinnati, OH 45368

Phone Number (513) 569-7537

Prerequisites 40 hours HAZWOPER training

Comments For Federal, State and local employees.

Course Title **Designs for Air Impact Assessments at Hazardous Waste Sites**

<u>Course Sponsor</u>	U.S. EPA
<u>Course Description</u>	This 5 day course is intended for management-level site personnel and U.S. EPA work-plan and air review staff who are responsible for assessing and coordinating air sampling, air monitoring, and air modeling strategies as a basis for evaluating risk to onsite and offsite receptors. Instructional methods include lecture, case studies, groups discussions, and demonstrations.
<u>Course Objectives</u>	<ol style="list-style-type: none">a. Evaluate air monitoring, air sampling, and air modeling data to develop an air impact assessment.b. Define the objectives of the air assessment.c. Develop and implement work plans for hazardous waste sites.d. Implement appropriate quality assurance and quality control when developing an air impact assessment.
<u>NBC Areas of Competency</u>	14, 18, and 25
<u>Target Audience</u>	
Military/Civilian/both	Civilian
Emergency Responder Group	Waste Site Workers
Emergency Responder Levels	Technician/Specialist Level
<u>Type of Instruction</u>	
Medium	Classroom and practical exercise.
Gov/Contractor	Contractor
<u>Recommended Class Size</u>	Less than 30
<u>Course Location/ Facility Dependent</u>	No
<u>Course Availability</u>	Immediately
<u>POC</u>	Mr. Bruce Potoka
<u>Address</u>	Environmental Response Training Program, U.S. EPA, 26 W. Martin Luther King Drive (B-3), Cincinnati, OH 45368
<u>Phone Number</u>	(513) 569-7537
<u>Comments</u>	For Federal, State, and local government employees. Requires large classroom or facility.

Course Title

Emergency Response to Hazardous Material Incidents

Course Sponsor

U.S. EPA

Course Description

This 5 day course provides emergency response personnel, primarily firefighters, police officers, and emergency medical services personnel, with the information and skills needed to recognize, evaluate and control an incident involving the release, or potential release of hazardous materials. It is intended for members of hazardous materials response teams. The focus of the course is on recognizing and evaluating a hazardous materials incident, organizing the response team, protecting refining decision-making skills, and protecting the public. Topics that are discussed include chemical and physical properties of hazardous materials, toxicology, procedures, personnel protection and safety, and sources of information. Instructional methods used are lectures, class problem-solving sessions, and field exercises. Emphasis is on the hands-on use of equipment to apply lecture information in a practical manner.

Course Objectives

- a. Select and use the appropriate personnel protective equipment for responding to an incident involving hazardous materials.
- b. Develop and implement procedures for the effective decontamination of emergency response personnel.
- c. Utilize air monitoring instruments to evaluate the hazards present at a hazardous materials incident.
- d. Utilize the Incident Command System to effectively manage an incident involving the release of hazardous materials.
- e. Utilize size-up techniques to develop strategies and select the appropriate tactics for mitigating a hazardous materials incident.

NBC Areas of Competency

7, 8, 9, 12, 16, 17, 25

Target Audience

Military/Civilian/both

Civilian

Emergency Responder Group

Firefighters/HAZMAT, Emergency Medical Service and Law Enforcement

Emergency Responder Levels

Technician/Specialist Level

Type of Instruction

Medium

Classroom and practical exercise.

Gov/Contractor

Contractor

Recommended

Class Size

Less than 30

Course Location/

Facility Dependent

No

Course Availability

Immediately

POC

Mr. Bruce Potoka

Address

Environmental Response Training Program, U.S. EPA, 26 W. Martin Luther King Drive (B-3), Cincinnati, OH 45368

Phone Number

(513) 569-7537

Course Title **Hazardous Material Incident Response Operations (165.5)**

Course Sponsor EPA (Environmental Response Team)
Course Description A 5-day course designed for personnel involved with the investigation and remediation of uncontrolled hazardous waste sites. It provides the basic information needed to meet the training requirements of 29 CFR 1910.120 (Hazardous Waste Operations and Emergency Response) for hazardous waste site workers.

- Course Objectives**
- a. Identify methods and procedures for recognizing, evaluating and controlling hazardous substances.
 - b. Identify concepts, principles, and guidelines to protect site or response personnel.
 - c. Discuss regulations and action levels to ensure health and safety of workers.
 - d. Discuss fundamentals needed to develop organizational structure and SOPs.
 - e. Select and use dermal and respiratory equipment.
 - f. Demonstrate the use, calibration, and limitations of direct-reading air monitoring equipment.

NBC Areas of Competency 7, 9, 12, 18, 25

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Other (HAZMAT Waste Site Workers).
Emergency Responder Levels	Technician/Specialist Level.

Type of Instruction

Medium	Classroom, practical exercise, other.
Gov/Contractor	Both

**Course Location/
Facility Dependent** No

POC Mr. Bruce Potoka
Address Environmental Response Training Program, U.S. EPA, 26 W. Martin Luther King Drive (B-3), Cincinnati, OH 45368
Phone Number (513) 569-7537

Comments Participants will wear fully encapsulating suits and chemical splash gear. Individuals not in a medical surveillance program should consult a physician prior to attending this course.

Course Title **Health and Safety Plan Workshop (165.12)**

Course Sponsor U.S. EPA

Course Description This 1-day course provides participants with guidance in using the U.S. EPA's Health and Safety Plan (HASP) software to develop site-specific health and safety plans in compliance with 29 CFR 1910.120 and 40 CFR 311. Topics discussed include an overview OSHA and EPA Hazardous Waste Operations and Emergency Response (HAZWOPER) standard and the requirements of a health and safety plan; HASP development, system requirements and installation; creating and consulting site files; accessing data from EPA's Environmental Response Team's (EPA-ERT) Bulletin Board System; and creating, editing, and auditing a site-specific health and safety plan. The course is intended for personnel responsible for developing site-specific health and safety plans at uncontrolled hazardous waste sites and for extended emergency operations.

Course Objectives After completing the course, participants will be able to generate a Health and Safety Plan using the HASP software package developed by EPA's Environmental Response Team.

NBC Areas of Competency 25

Target Audience
Military/Civilian/both Civilian
Emergency Responder Group Health and Safety Planners
Emergency Responder Levels Senior Management Level

Type of Instruction
Medium Classroom and practical exercise.
Gov/Contractor Contractor

Course Location/ Facility Dependent No

POC Bruce Potoka
Address Environmental Response Training Program
U.S. Environmental Protection Agency
26 W. Martin Luther King Drive (B-3)
Cincinnati, OH 45368
(513)569-7537

Phone Number
Comments This course delivered through EPA's regional superfund training contacts and at the U.S. EPA Training Centers in Cincinnati, OH and Edison, NJ.

Course Title **Incident Command/Unified Command for On-Scene Coordinator**

Course Sponsor U.S. EPA

Course Description This one day course provides participants with an overview of the NIIMS Incident Command System. Special emphasis is placed on the development and use of Unified Command by On-Scene Coordinators (OSC's) during emergency response activities. The course is designed to help federal agencies comply with 40 CFR 300.105 and paragraph q of 29 CFR 1910

Course Objectives After completing this course, participants will be able to:
a. Explain the need for the use of an ICS during an emergency response.
b. Describe the basic concepts of ICS and Unified Command.
c. Develop a Unified Command structure, pursuant to 40 CFR 300.105.
d. Demonstrate the use of the concept of Area Command during an emergency response.

NBC Areas of Competency 11,16

Target Audience
Military/Civilian/both Civilian
Emergency Responder Group Incident Commanders
Emergency Responder Levels Operations Level

Type of Instruction
Medium Classroom and practical exercise.
Gov/Contractor Contractor

Recommended Class Size Less than 30

Course Availability Within 30 days

Cost (Does not include billeting) \$0 (for employees of federal, state, or local government)

POC Mr. Bruce Potoka

Address Environmental Response Training Program, U.S. EPA, 26 W. Martin Luther King Drive (B-3), Cincinnati, OH 45368

Phone Number (513) 569-7537

Comments Course should be available in summer, 1998.

Course Title **Radiation Safety at Superfund Sites**

Course Sponsor U.S. EPA
Course Description This 5 day course is designed for individuals who may 1) encounter radioactive materials in the course of their work, or 2) become involved with the regulatory oversight of a location contaminated with radioactive materials. The course provides participants with an understanding of the fundamental principles of radiation safety, with emphasis placed on radiation detection instrumentation and contamination control work practices.

- Course Objectives**
- a. Detect the presence of radioactive materials while performing investigations at hazardous waste sites.
 - b. Implement methods of radiation exposure reduction and contamination control under the guidance of health physics personnel.
 - c. Identify regulations concerning area posting, exposure limits and reporting, transportation requirements, and release limits.
 - d. Propose options for remediation and disposal of radioactive materials.

NBC Areas of Competency 18

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Waste Site Workers.
Emergency Responder Levels	Technician/Specialist Level.

Type of Instruction

Medium	Classroom and practical exercise.
Gov/Contractor	Contractor

Recommended Class Size Less than 30

Course Location/ Facility Dependent No

Course Availability Immediately

POC Mr. Bruce Potoka
Address Environmental Response Training Program, U.S. EPA, 26 W. Martin Luther King Drive (B-3), Cincinnati, OH 45368
Phone Number (513) 569-7537





**DEPARTMENT OF JUSTICE (DOJ)/
OFFICE OF JUSTICE PROGRAMS (OJP)**

Course Title **Emergency Response to Terrorism: Basic Concepts**

Course Sponsor Office of Justice Programs, US Department of Justice

Course Description This program was developed National Fire Academy for OJP and is designed to prepare first responders for terrorist incidents by the dealing primarily with life safety and self preservation with an all hazard focus including biological, nuclear, incendiary, chemical and other explosive devices (B-NICE). This focus includes information on detection and monitoring for the above mentioned topics. Length: 16 hours

- Course Objectives
1. The student will be able to recognize circumstances that indicate a potential terrorist act.
 2. The student will be able to define the implementation of appropriate self protective measures.
 3. The student will be able to define scene control issues involving isolation, evacuation, and perimeter control associated with terrorist incidents.
 4. The student will be able to recognize, define, and recommend tactical objectives for B-NICE incidents.
 5. The student will be able to describe the command and control issues associated with the responder operations at a crime scene.

NBC Areas of Competency 1,2,2b, 3-5, 8, 8a,9, 10, 11, 12, 14, 15, 29

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Firefighter/Hazmat Emergency Medical Service (e.g. EMT, Paramedic, etc), Law enforcement encouraged to attend: coordinate with local Fire Chief.
Emergency Responder Levels	Operations Level

Type of Instruction

Medium	Classroom, paper based and video.
Gov/Contractor	Fire service training practitioners serve as faculty.

Recommended Class Size Less than 50

Course Location/ Facility Dependent No

Course Availability Immediately, targeting the 120 largest urban jurisdiction in Nation.
Cost No cost to participating jurisdiction; instruction provided on-site by certified trainers from the participating jurisdiction or from OJP-provided certified trainers.

POC Allen Cole
Address Community Research Associates, 311 Plus Park Boulevard, Suite 100 Nashville, TN 37217

Phone Number (615) 399-9908

Comments The delivery of this program is coordinated with fire Chief in the target jurisdiction for scheduling and attendance. Community Research Associates is the coordinating contractor for OJP and coordinates the provision of training materials, training facilities if required and all other elements of support for this effort.

Course Title **Emergency Response to Terrorism: Incident Management**

Course Sponsor Office of Justice Programs, Department of Justice
Course Description This program was developed by the National Fire Academy for OJP and is designed for Incident Commanders who would be responsible for managing terrorism incidents. It has a heavy planning emphasis and includes recognizing cues that terrorist incident is in progress. Length: 6

- Course Objectives
1. The student will be able to recognize circumstances that indicate a potential terrorist act.
 2. The student will be able to define and recognize terrorist incidents with respect to command issues.
 3. The student will be able to plan and operate a terrorist incident with respect to operations, evidence issues, scene control, and hazardous materials/EMS responses.
 4. The student will be able to implement the recovery and termination phases effectively.
 5. The student will be able to relate full incident commander responsibilities to international and national terrorist incidents.

NBC Areas of Competency 1,2,2b, 3-5,7, 8, 8a,10,10a,11, 12, 14, 15,16,21, 25,26

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Incident Commanders and Fire and EMS Trainers Paramedic, etc
Emergency Responder Levels	Senior Management Level

Type of Instruction

Medium	Classroom, paper based, practical exercise, and video.
Gov/Contractor	Fire service training practitioners serve as faculty and other government expert trainers.

Recommended Class Size Less than 50

Course Location/Facility Dependent No, but may eventually be conducted at a national training facility with special facilities enabling hand-on training environment and opportunity for exercise component.

Course Availability Projected for July 1998 targeting the 120 largest urban jurisdiction in Nation.
Cost No cost to participating jurisdiction; instruction provided on-site by certified trainers from the participating jurisdiction or from OJP-provided certified trainers.

POC Frank Lepage
Address Office of the Assistant Attorney General
Office of Justice Programs
810 7th Street, NW
Washington, DC 20531

Phone Number (202) 616-2920
Comments The delivery of this program is coordinated with fire Chief in the target jurisdiction for scheduling and attendance.





DEPARTMENT OF TRANSPORTATION

Course Title **First Responder Training Workshop: Public Transportation Chemical, Biological and Nuclear Incidents**

Course Sponsor Department of Transportation’s Research/Special Programs Administration & The Office of the Secretary, Office of Intelligence and Security

Course Objectives To better understand the vulnerability of the transportation system and to recommend solutions and to leave the department and transportation providers better postured to identify and respond to transportation threats and vulnerabilities in the future. Course focuses on the needs, procedures, command structures, awareness, and other issues germane to first response in the event of a chemical, biological or nuclear threat/incident in a transit venue. Overall objective is to foster greater understanding of the threats, both real and perceived, as well as first response procedures and foster enhanced professional exchange. (Course length not given)

NBC Areas of Competency 1,2,3-5,6,7,8,8a,9,10,11,13,14,16,19, 20,21

Target Audience
Military/Civilian/both Civilian
Emergency Responder Group Transit police and transit personnel, firefighters, EMTs/Paramedics and other first responders

Type of Instruction
Medium Classroom and emergency drills/tabletop exercises
Gov/Contractor Fire service training practitioners serve as faculty and other government expert trainers .

Course Location/ Facility Dependent No,

Course Availability As requested

POC Address Lenora Burke, DTS-78
Volpe National Transportation Systems Center,
55 Broadway, Cambridge, MA 02142

Phone Number (617) 494-2206

