



Weapons of Mass Destruction Training

Prevention of and Response to Suicide Bombing Incidents

Resident Course PER 231-1
Information Package

April 25, 2013



FEMA



Copyright Information

Prevention of and Response to Suicide Bombing Incidents

Resident Course PER 231-1
Information Package

Copyright © 2004–2013 by New Mexico Institute of Mining and Technology, (New Mexico Tech), Energetic Materials Research and Testing Center (EMRTC)

All Rights Reserved

Reproduction of this document, in whole or in part, requires written authorization from the Director, Energetic Materials Research and Testing Center, New Mexico Tech.

Version Date: April 25, 2013

Contact Information

New Mexico Tech/EMRTC

801 Leroy Place

Socorro, NM 87801

Phone: (575) 835-5312

Toll Free: (866) 476-9433

Fax: (575) 835-5680

Email: respond@emrtc.nmt.edu

Website: <http://respond.emrtc.nmt.edu>



Application Process

All training requests must be authorized through your State Administrative Agency (SAA) State/Territory Training Point of Contact (TPOC).

- This training program is underwritten by a grant from the U.S. Department of Homeland Security, Office of Grants and Training (DHS-G&T). It is designed to provide technical operational level training for U.S. citizens who are active state and local firefighters, law enforcement personnel, emergency medical personnel, and other first responders who have significant responsibility for providing specialized support during weapons of mass destruction (WMD) incidents, particularly those involving explosive or incendiary materials.
- Approved car rental, hotel, and per diem costs are reimbursable through the Department of Homeland Security program. Airfare costs are billed directly to the PRSBI funded program. Airline and rental car arrangements must be booked through Paradise Travel Agency. Paradise Travel will use alternate airports to reduce the cost of airfares when possible. Mileage will be reimbursed at the federal mileage rate for use of privately owned vehicles (POVs) for travel to and from your residence and the airport. The PRSBI program manager must approve all costs that exceed \$100.00 for taxi or limousine services to and from your residence and the airport. Lodging costs will be reimbursed in accordance with per diem rates set forth in the federal travel regulations. Per diem will be paid at the current federal rate for Socorro, New Mexico. Federal employees are eligible to attend this training on a space-available basis. They are NOT eligible for reimbursement under this program and must pay for their own expenses and travel.
- We encourage you to complete the attached application and submit it through your channels for review and approval as soon as possible. Your timely response will assist us in ensuring you receive the class date of your preference.
- All fields of the application are required. Most correspondence pertaining to scheduling will be sent to you via your email address. If the application is incomplete, processing of it may be delayed.
- In addition to the application, we have provided a course synopsis and an applicant information sheet. These are yours to keep. The PRSBI training schedule is located at the following website: <http://www.emrtc.nmt.edu/training/trainingschedule.php>. We recommend that you list three (3) class dates in order of preference in the application. We will make every effort to slot you in one of your preferred class dates.
- The scheduling coordinator will review the application to ensure it contains the required information. If approved, a confirmation package with your class date will be emailed or faxed to you, along with travel, rental car, and hotel reservation instructions. Class confirmation is determined when your travel request is received through Paradise Travel.
- If you have questions regarding any aspect of the program, please contact us. We will be happy to assist you.



Application Instructions

The following instructions are provided to assist you in completing the application form. All of the information required on the form is required by DHS and is subject to our privacy policy. To view our privacy policy, please refer to the following site: <http://www.emrtc.nmt.edu/privacy.php>.

*** Note: Your DHS appointed state point of contact must sign the application or email approval for your attendance at this training.**

Personal Information

- Last Name, First Name, Middle Initial
- FEMA Student Identification Number - A FEMA SID # is required to register for and participate in any training provided by FEMA. To obtain a FEMA SID # or for more information, please go to <https://cdp.dhs.gov/femasid/>.
- Date of Birth – Example: 04/29/1970
- Email Address – Please provide a clearly legible email address. This is the most effective means of communication.
- Cell Phone Number – Example: (555) 555-5555
- Home Phone Number – Example: (555) 555-5555
- Home Address – Street, city, state, and zip code

Agency Information

- Name of Department/Agency – Name of the department/agency that employs you
- Position/Title – Your official position or title
- Office Phone – Ensure that a valid office phone number is provided, including any extensions
- Department Address – Street, city, state, and zip code

Citizenship Information

- This training is designed for U.S. citizens only.

Preferred Dates of Attendance

- Provide three dates in order of preference. You may find a schedule of available classes at the following site: <http://www.emrtc.nmt.edu/training/trainingschedule.php>.

Authorizations and Signatures

- State Point of Contact – Your DHS state point of contact must approve this training. To find out who your SPOC is, please go to <http://www.emrtc.nmt.edu/training/statepoc.php>.
- Department Head – Your department head or his/her designee must approve this training.
- Applicant – Your signature certifies that you are a U.S. citizen and that you are eligible to attend this training.



Course Description

Overview

To succeed in preparing for and responding to future suicide bombing threats in the United States, emergency response agencies must complete extensive preparatory actions—developing plans, acquiring equipment, and conducting training and exercises that focus on likely attack scenarios. This program supports these imperatives by providing state-of-the-art training on the prevention of and response to terrorist suicide bombings.

The U.S. Congress has recognized the need for federal programs to assist state and local jurisdictions with preparations against the threat of bombing incidents. Recent events within the U.S. and abroad have demonstrated the urgency for assistance activities. As threats have increased and evolved, the U.S. Government has expanded its support for initiatives to prepare federal, state, and local emergency services personnel to respond appropriately and safely to incidents involving traditional explosives.

The U.S. Department of Homeland Security (DHS), Federal Emergency Management Agency (FEMA), National Preparedness Directorate (NPD), National Training and Education Division (NTED), is supporting several major initiatives to improve the capability of emergency services agencies to respond to bombing incidents. The *Prevention of and Response to Suicide Bombing Incidents* (PRSBI) course, developed by the New Mexico Institute of Mining and Technology (New Mexico Tech), is one of those major initiatives.

Target Audience

This course is designed for law enforcement officers, firefighters, emergency medical services, and emergency management operations personnel. Personnel chosen for this training must be in a position to have a positive influence on developing and/or revising departmental policies and procedures necessary for dealing with the suicide bombing threat.

Prerequisites

The following prerequisites apply to personnel attending this course:

- United States citizenship.
- Actively employed or volunteer member of a first responder or emergency management agency.
- Assignment or identification for assignment to a position responsible for conducting WMD training; developing plans, policies, procedures, and tactics to govern response; providing specialized response support during WMD incidents; or coordinating initial response to a WMD incident.
- Sufficient tenure remaining in their current or future position to allow for the application of course material upon their return.
- For personnel who desire trainer certification, completion of an instructor training program, and/or documented experience as a trainer.
- Required prerequisites must be verified by the participant's department at the time of application. Participants must have a picture identification card (preferably one issued by their department) for presentation to instructors prior to the start of instruction.



Scope Statement

This is a performance (operations) level resident course designed to provide training necessary to develop plans, policies, and procedures to prevent and respond to suicide bombing incidents in participants' jurisdictions. The course offers a unique blend of classroom presentations, field laboratories, case studies, and practical exercises. It addresses, in detail, the considerations required to be addressed in a jurisdiction's plans to deal with the suicide bombing threat.

Training enables course graduates to

- Develop plans, policies, and procedures required for safe and effective prevention and response
- Coordinate equipment required for detection and response
- Implement appropriate training and conduct basic awareness level training for their agencies
- Identify exercise requirements needed to support agency-wide and multi-agency preparation

This is the capstone course in the U.S. for preparing senior managers in state and local emergency response agencies to handle terrorist employment of suicide bombing tactics against U.S. targets.

Course Length

This course is designed for presentation over four and a half consecutive days. Beginning and ending times for instruction on each day of training can be adjusted to accommodate weather conditions and other factors. The schedule allows for one ten-minute break every hour and a one-hour lunch break on each training day. PRSBI is a dual track training course. All participants attend the twenty-six-hour core curriculum during the first three days of training. On the fourth day, pre-approved participants, with specific and relevant experience, receive tactical skills training focused on suicide bomber intervention techniques. This training requires 11.25 hours. The remainder of the class participants receives training that complements their duties and functions in a suicide bombing event. On the final day of the training, both groups merge to work collaboratively on a performance exercise focused on all aspects of a suicide bombing event.

Testing/Certification

Participants are administered a pre-test on arrival for the first day of instruction and a post-test after completion of instruction. The post-test enables program administrators to assess the level of learning attained by participants. Post-test requirements focus on determining the ability of participants to make correct decisions and select appropriate actions after evaluating written scenarios involving terrorists and energetic materials. Participants who perform successfully on the post-test are recognized with a training certificate. Participants who do not perform successfully on the post-test are issued a certificate of attendance and are not authorized to deliver performance level training to personnel in their agencies or members of their communities.



Evaluation Strategy

Participant perception of learning (Kirkpatrick's Level 1) will be measured by the DHS Level 1 *Student Assessment of Course and Instructors Form*, to be filled out by the participants at the end of each course, as required by DHS. The Likert Scale responses of the participants will be used to evaluate the participant's perception of the value of the learning experience. Pre- and post-test questions and performance exercises will be used to determine mastery of the course objectives (Kirkpatrick's Level 2). Periodic surveys will be conducted to assess transfer of learning to the performance environment and its perceived value in an organizational setting (Levels 3 and 4).

Course Design

Module 1: Introduction and Orientation

This module provides participants with information about the training program, training location, and course schedule. Participants are introduced to the course goals; module goals and objectives; administrative and range requirements for completion of the course; and reimbursement for travel costs. In addition, participants are administered a pre-test to determine their level of knowledge at the beginning of training to measure knowledge transfer at course end.

Module 2: The Threat of Suicide Terrorism

This module introduces the course by establishing the threat of suicide terrorism and the evolution of suicide bombing tactics. Among the topics to be presented are the varied strategic goals, motivations, and historical and cultural backgrounds of terrorist groups employing suicide bombing tactics. The module will conclude with a review of the tactical trends, including target selection. Additionally, it will introduce the nine phases of a suicide bombing attack.

Module 3: Suicide Bombing Improvised Explosive Devices: Materials, Hazards, and Delivery Methods

This module provides the participants with foundation knowledge to interpret and understand concepts and material contained in later modules. Information will be presented concerning the components required to produce an explosive or incendiary event, the methods of manufacturing homemade explosives, the physical and chemical processes required to cause an explosion, and the physical consequences of an explosion. Also, delivery methods and tactics used by terrorists when employing explosives and incendiaries will be explored. The module concludes with a performance exercise aimed at developing the ability to recognize the various precursors used in the manufacturing of improvised explosives used in SBIEDs and to implement safe response procedures.

Module 4: Intelligence and Community Situational Awareness

This module provides participants with the ability to explain how the intelligence and community situational awareness programs function to support the prevention, deterrence, and interdiction of suicide bombing attacks.



Module 5: Infrastructure Protection, Risk Management, and Critical Asset Assessment

This module introduces the participants to the methodology constants supporting national infrastructure protection. The overview identifies the importance and relationship of conducting asset assessments, threat assessments, and vulnerability assessments within a jurisdiction in order to develop a community action plan based on a precise and accurate risk analysis appropriate to the suicide bombing threat. Asset assessment—the first step of the risk management model—will be presented in detail. A critical asset/target assessment worksheet will be used to help participants to accurately assess and prioritize a target list, identify assets and critical detection points at a given facility or event, and determine loss effect and rating assessment, as based on an undesirable event occurring.

Module 6: Threat Assessment

This module introduces the participants to the second step in the risk management model. Threat assessment will be covered in detail, and each participant will be provided with threat assessment worksheets to be used during the course and upon return to his or her jurisdiction. These tools will assist participants in accurately assessing their local and regional threat level, thus providing an indication as to what types of plans and countermeasures need to be in place for a specific adversary. Participants in an instructor-led group effort will develop a threat assessment of an adversary that is known to use suicide bombing as a tactic. The module also helps prepare participants for the final performance exercise.

Module 7: Legal and Personal Protection Issues

Issues surrounding probable cause and the use of deadly force by the police have a long history and supporting case law as a foundation. It is much more difficult to recognize, understand, and react to these same issues during a suicide bombing event. This module will closely examine factors that may add to the establishment of probable cause, as well as understanding the differences in the application of force to prevent and deter suicide bombing attacks. The module concludes with four performance exercises intended to measure the participants' abilities to recognize when probable cause has been established.

Module 8: Vulnerability Assessment

This module presents information on the importance of conducting vulnerability assessments to develop scaled countermeasures appropriate to the threat. Vulnerability assessment tools will be provided to assist participants to determine various assets' or targets' vulnerabilities, thus offering an indication as to what types of plans and countermeasures need to be in place for potential terrorist targets. All tools will be incorporated into an overall risk analysis that assists in determining selection of effective countermeasures. Planning documents will be covered to prepare participants to develop local plans upon their return to work.

Module 9: Risk Analysis

This module presents participants with information on the importance of conducting a risk analysis based on asset, threat, and vulnerability assessments within their communities in order to develop scaled countermeasures appropriate to the threat. Participants will be provided risk analysis tools to be used upon return to their home jurisdictions. These tools will enable them to assess security proposals and potential upgrades—in more detail than is usually done—in order



to determine what types of plans and countermeasures need to be in place for potential terrorist targets. The overall risk analysis assists in comparing and selecting effective countermeasures. Participants will also be introduced to the use of planning and evaluation documents which will prepare them to develop local plans within their own communities.

Module 10: Pre-Attack/Imminent Attack Countermeasures, Issues, and Responses

This module provides participants with information, techniques, and practical examples of physical, procedural, staffing, operational, and legal countermeasures that can be implemented as terrorist threat levels rise. Participants will be presented with issues coinciding with the final phases of a terrorist suicide bombing attack. They will learn the techniques of layering final defenses, as well as immediate action procedures and techniques that are facilitated by the resulting reactionary gaps created by the layers of defense. The purpose of the gaps is to increase law enforcement reaction time, permit immediate reaction procedures, and force detonation away from the target for the three types of suicide bombing attacks. Among the matters discussed will be use of barriers, baffles, screening technologies and procedures, and manifest psychological and physical characteristics of bombers. This module builds on legal issues dealing with the use of force and deadly force. Life safety issues and mitigation are also covered.

Module 11: Field Laboratories

Field laboratories are designed to give participants an opportunity to observe and perform under conditions similar to those found in a real-world environment. During the field laboratory exercises in this module, instructors will review previously presented classroom subject matter pertaining to the field laboratory exercises and describe in detail the potential impact of explosive materials on structures and human victims. Participants will view a variety of improvised explosives used in the construction of SBIEDs; witness the detonation of these materials and devices; and observe the dangers and destructive power of the explosives on the scene, including damage caused to mannequins and a building.

Module 12: Post-Blast Issues and Response

This module provides policy guidance and experience-based practical knowledge of what to do in the aftermath of a suicide bombing. It is designed to help mid- and senior-level managers to prepare their departments and agencies for the special requirements that a suicide bombing imposes on site organization and other duties and responsibilities of first responders. The module concludes with a performance exercise for participants to practice response to a post-suicide bombing incident.

Module 13: Operations-Based Exercise

This module provides participants with their final full-scale operations-based exercise, which will be conducted in a field environment. This performance exercise will provide participants with the opportunity to use the knowledge and skills obtained during the course. During the eight hours assigned to this exercise, two exercise phases will be executed. In the first phase, participants will conduct in-depth risk management modeling specific to the suicide bombing threat, and supported by a full complement of assessments. They will also collect and manage information indicating pre-attack and imminent-attack phases of a suicide bombing and plan for pre-attack countermeasures appropriate to the threat level. In the second phase, participants will deploy



threat-based and scaled countermeasures while performing interdiction and mitigation activities to prevent or lessen the consequences of a suicide bombing in the imminent-attack phase. This phase concludes with a response to a post-blast incident involving secondary devices and an asymmetrical attack.

Module 14: Explosive Breaching for Law Enforcement Tactical Operations

This module provides participants with the foundational training and preparation needed by tactical operators to ensure that effective and safe integration of explosive breaching into tactical operations is accomplished.

Module 15: Suicide Bombing Tactical Considerations

This module provides participants with insight into suicide bombing tactics as they relate to tactical operations, and establishes a foundation for selecting tactics that increase the potential for success during a suicide bomber encounter or attack.

Module 16: Tactical Performance Exercises

This module contains two performance exercises for the tactical team. Participants should apply the information and principles taught in the class to identify and implement the tactics, techniques, and procedures needed to safely negotiate the exercises, which will contain explosive hazards. The final training scenario involves setting up and operating a vehicle checkpoint. The purpose of the exercise is for law enforcement officers to demonstrate their ability to identify tactics needed to interdict a PBIED or VBIED at a fixed point; to implement measures to minimize damage and casualties; and to control and contain the situation.

Module 17: Awareness Level Training

During this module, participants are given an overview of the awareness level training course.

Module 18: Course Summary, Assessment, Knowledge Survey, and Graduation

Participants will complete a course assessment of the training materials, presentations, facilities, and instructors. They must take a post-test to assess their level of learning and determine eligibility to present awareness level training in their home communities. They also have an opportunity to ask questions about administrative requirements, such as travel reimbursements. Certificates will be presented to participants who have successfully completed all course requirements.