





MDB builds capacity for training and development activities and resources that explain the health impacts of climate change and hazardous waste across a variety of public health fields — including worker safety, emergency response and emergency public health, environmental justice, and environmental health. We develop and deliver training materials, course curriculum, scenario-based instruction, and lesson plans for federal and state agencies and nonprofit organizations.




Our training support and development staff include seasoned public health experts, master’s-level facilitators, communication professionals, technical writers, graphic designers, and library-scientists who have a wealth of experience in developing and delivering high-end and highly effective educational materials for both U.S. and international audiences. Highlights of MDB’s efforts include the following:

 **Authoring and developing training and education materials**

 **Collaborating with subject matter experts to craft training curriculum and plans**

 **Delivering on-site instruction for scenario situations**

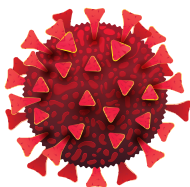
 **Digitalizing training materials into accessible mobile applications**

 **Facilitating train-the-trainer exercises and training workshops**

Representative case studies of MDB’s education and training support include:

**FEDERAL AND STATE COVID-19 WORKER SAFETY AND HEALTH TRAINING**

Operated by MDB since 2000, the National Clearinghouse for Worker Safety and Health Training supports the National Institute of Environmental Health Science (NIEHS) Worker Training Program (WTP) staff and grantees in providing health and safety training to workers involved in handling hazardous materials or in responding to emergency releases of hazardous materials. The Clearinghouse is a national resource for hazardous waste worker curricula, training tools, and guidance documents on hazardous materials, waste operations, and emergency response. We support a network of trainers and training organizations that has provided training to more than four million workers to do their jobs safely. We regularly work with this network of subject matter experts to review



**OUR CLIENTS**

MDB has engaged in training projects for various federal clients including:

- U.S. Department of Health and Human Services (HHS)
- National Institute of Environmental Health Sciences (NIEHS)
- Occupational Safety and Health Administration (OSHA)
- State of Pennsylvania
- U.S. Department of Energy (DOE)
- U.S. Environmental Protection Agency (EPA)

curricula. Training is tailored to specific populations, such as underemployed or non-English-speaking workers.

**TRAINING CURRICULA AND TOOLS FOR RESPONDERS AND RECOVERY WORKERS**

MDB subject matter experts conducted literature reviews to develop curricula for disaster responders. We led and created the development of handheld training booklets including safety tips on how NIEHS WTP responders can protect themselves while helping others. MDB partnered with an education technology firm to develop mobile apps that responders can open and use out in the field. The app is now available in the Apple Store and Google Play Store to ensure their usability and effectiveness. Training materials incorporated into the app include earthquakes, wildfires, chemical incidence, oil spills, mold, avian influenza, pathogen safety, hurricanes, and floods, and have been translated into Haitian Creole, Vietnamese, Japanese, and Spanish.

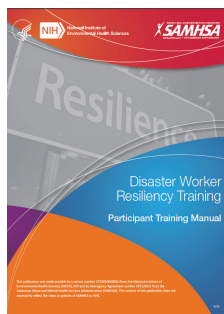


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## RESPONDER RESILIENCE TRAINING PROJECT

To address unmet mental health and resilience needs following multiple disasters in the southern U.S., MDB worked with the NIEHS WTP, with support from the Substance Abuse and Mental Health Services Administration (SAMHSA), to develop a series of mental health and resilience training materials. MDB SMEs and training developers worked with local stakeholders and impacted communities to identify training needs and develop three unique trainings and an accompanying train-the-trainer session for: disaster workers and impacted communities, supervisors of recovery workers, and for healthcare providers in disaster impacted areas. Each curricula set includes participant and trainer manuals, activities, handouts, and a template for evaluation. Trainings are available in both English and Spanish. Before beginning training development, MDB met with communities to identify training needs, conducted a literature search of best practices for mental health training and delivery, pilot tested all versions of the materials in multiple communities and multiple locations, and developed an evaluation plan to ensure effectiveness. We have used this process to develop similar trainings for pathogen safety, opioid and substance use prevention and response, and biohazards.



## SCENARIO-BASED DISASTER TRAINING WORKSHOPS

Since 2014, MDB has provided logistic planning, training development, facilitation and report writing services for disaster research response training workshops. These events introduce researchers to the world of disaster response and involve a hypothetical, yet realistic, disaster scenario and a tour of the “impacted” area. The training events are designed to initiate discussions among federal leadership, academic researchers, and local stakeholders about disaster research response. MDB plays



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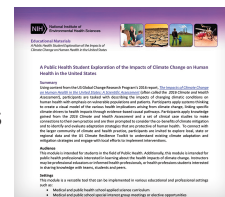
**MDB holds a Multiple Award Schedule (MAS):** Contract 47QRAA20D0028, that allows us to offer a wide range of professional services to the U.S. federal government.

an integral role to develop the scenario, training goals, and associated preparatory materials, meet with local officials, provide facilitators, manage the registration and travel, provide note-taking, conduct the post exercise evaluation, and write the final report.

MDB training developers and planners can develop the full spectrum of exercises, ranging from facilitated discussions to full field exercises. Our training professionals develop the Master Scenario Events List, injects, evaluator and controller manuals, and training events, facilitate and evaluate the event and develop evaluations and after action reports.

## CLIMATE CHANGE, AND HUMAN HEALTH LESSON PLANS FOR TEACHERS

We have supported the development of NIEHS Climate and Health learning modules for a variety of student audiences that explore the health impacts of climate change both in the United States and globally. To connect with the larger community of climate and health practice, participants are invited to explore regional or global data to understand existing climate adaptation and mitigation strategies and engage with regional efforts to implement interventions. Our skilled team of library scientists and training developers worked with climate change subject matter experts to ensure that the modules are designed and updated to reflect the latest science.



## ENVIRONMENTAL JUSTICE TRAINING

MDB developed an environmental justice training course for employees of the U.S. Department of Health and Human Services (HHS). The course increases awareness of and access to information on health and environmental justice. The course educates HHS employees about environmental justice, environmental hazards, and healthy community environments. More specifically, the course is designed to provide insight and assist HHS employees in applying Environmental Justice principles to their work.

