



National Institute of
Environmental Health Sciences
Worker Training Program

The National Institute of Environmental Health Sciences/
Department of Energy

NUCLEAR WORKER TRAINING PROGRAM

In This Report

This report summarizes the activities of the National Institute of Environmental Health Sciences (NIEHS)/Department of Energy (DOE) Nuclear Worker Training Program — hereafter referred to as the NIEHS/DOE Program — and its award recipients from August 1, 2024 - July 31, 2025.

Introduction	3
Overview of the National Institute of Environmental Health Sciences (NIEHS)/ Department of Energy (DOE) Nuclear Worker Training Program	4
Program Goals and Mission	4
Program Award Recipients	4
Quality Training, Expert Instructors, and Flexible Delivery	5
Training Participants	5
Collaboration With DOE National Organizations and Programs	6
A National Asset in Emergency Response	6
Program Training Data, 2024–2025	7
Highlight #1 ICWUC Empowered Workers to Uphold Safety Culture	11
Highlight #2 CPWR Helps Set New Standards for Safety, Health, and Environmental Training	12
Highlight #3 IAFF Prepares for Transportation Disaster	13
Ongoing, New, and Upcoming Initiatives	14
NIEHS Program Leadership and Activities	14
Reciprocity Through NTC	17
National and Site-Specific Collaborations With the DOE Site Contractor Community	18
DOE Liaison	18
Award Recipient Training for Contractor Employees	19
Program Funding and Award Recipients	21
Award Recipient and Site Highlights	24
Clearinghouse Activities	31
Background of the NIEHS/DOE Program Partnership	32
Data Tables	33
Table 1: Total Training by NIEHS Award Recipients, August 1, 2024 - July 31, 2025	33
Table 2: Courses Provided Through the DOE Program by NIEHS Award Recipients, August 1, 2024 - July 31, 2025	34
Table 3: Total NIEHS Training by DOE Site, August 1, 2024 – July 31, 2025	37
Table 4: 10-Year Training Summary: NIEHS/DOE Nuclear Worker Training Program, 2015-2025	38
Table 5: Summary of NIEHS Training at DOE Sites, 1994-2025	39
Table 6: Projected Versus Actual Training, August 1, 2024 – July 31, 2025	40
Table 7: Projected Training Courses for Next Budget Period, August 1, 2025 – July 31, 2026	41

Introduction

The National Institute of Environmental Health Sciences (NIEHS)/Department of Energy (DOE) Nuclear Worker Training Program is **administered by the NIEHS Worker Training Program (WTP)**. Since 1993, WTP has been dedicated to supporting the needs of DOE leadership, staff, contractors, and sub-contractors.

The [NIEHS/DOE program](#) provides site-specific health and safety training to DOE site workers. The program funds several labor and nonprofit organizations across the country. These organizations, **or award recipients, have qualified instructors who deliver health and safety training courses in a timely and cost-effective manner, with an average cost of \$23.83 per contact hour.**¹

Since 1993, award recipients have delivered more than 56,000 training courses and trained approximately 814,498 workers, resulting in more than 10.5 million contact hours of training.

This report describes the:

- Goals and mission of the NIEHS/DOE program.
- Training metrics, locations, and courses delivered from August 1, 2024, to July 31, 2025.
- Ongoing, new, and upcoming initiatives relevant to the NIEHS/DOE program.
- Award recipient highlights and training activities from August 1, 2024, to July 31, 2025.
- History and background of the NIEHS/DOE program partnership and authorization.

The NIEHS/DOE program provides training to support the healthy and safe execution of work at DOE sites. The program aims to ensure that all DOE site workers are fully equipped to meet the demands of their roles, with safety, compliance, and operational excellence as top priorities.

¹ Contact hours represent the number of hours of training provided multiplied by the number of people trained.

Overview of the National Institute of Environmental Health Sciences (NIEHS)/ Department of Energy (DOE) Nuclear Worker Training Program

Program Goals and Mission

The goal of the NIEHS/DOE program is to provide high-quality training to DOE site workers to ensure they are prepared to work safely in hazardous environments.

The NIEHS/DOE program supports DOE's commitment to provide workers with the skills and knowledge to identify hazardous situations and take appropriate actions to protect themselves, fellow workers, and the environment. Notably, NIEHS/DOE training aligns with several initiatives, including:

- **DOE Integrated Safety Management.** A DOE framework to ensure that work is performed safely and in an environmentally responsible manner while accomplishing DOE's mission and goals. The framework is grounded in policy and emphasizes planning, hazard identification, control implementation, safe execution of work, and continuous feedback for improvement.
- **DOE Safety Culture Workgroup.** DOE defines safety culture as shared values and behaviors that make safe work the top priority to protect people, the public, and the environment. Safety culture is closely linked with organizational culture and Integrated Safety Management, emphasizing leadership and management commitment, employee engagement, open communication, and continuous learning to ensure safety becomes part of every DOE task, every day.
- **Title 10 of the Code of Federal Regulations, part 851 (10 CFR 851).** This regulation sets the rules for how DOE contractors must protect workers' health and safety at DOE sites. This is the legal foundation for making sure that DOE contractor workplaces are safe and healthy.
- **Worker Safety and Health Program.** Part of the 10 CFR 851 regulation (mentioned above), this program requires contractors to have a formal safety and health program that identifies workplace hazards, implements controls to prevent injuries and illnesses, trains workers, keeps safety records, and involves workers in safety matters.

As the primary administrator for the NIEHS/DOE program and a longtime partner of the DOE Office of Environmental Management, WTP aims to foster a workforce that is knowledgeable, skilled, and confident in applying the DOE integrated safety program, which is required for every DOE contract.

Program Award Recipients

NIEHS/DOE program award recipients are vetted and selected through a competitive application process that is managed by NIEHS. Award recipients are selected based on their expertise with DOE operations and their capacity to deliver high-quality and comprehensive training to DOE site workers. From August 1, 2024, to July 31, 2025, there were seven award recipients.² (See Program Funding and Award Recipients on page 21).

² In fall 2025, six award recipients began a new five-year award cycle funded by the NIEHS/DOE program. This award cycle runs from August 1, 2025, through July 31, 2030.



Award recipients are well-established training organizations with experienced instructors, management, and technical staff. Award recipients demonstrate established training capabilities, curriculum development and delivery, instructor training and qualification, and ongoing program management. Each award recipient adheres to the [NIEHS Minimum Health and Safety Training Criteria: Guidance for Hazardous Waste Operations and Emergency Response \(HAZWOPER\) and HAZWOPER-Supporting Training](#) (Minimum Criteria).

Several award recipients partner with contractors and local workforce development programs to deliver specialized courses. These collaborations enable training on critical topics; they also help address site-specific needs and ensure compliance with DOE standards.

Quality Training, Expert Instructors, and Flexible Delivery

Award recipients offer a broad range of topics, including workplace safety, regulatory compliance, technical procedures, leadership development, and more. **Upon request, award recipients can customize training to various DOE contractor sites.** Training courses address complicated and evolving DOE site missions with ongoing and emerging hazards, often including a combination of nuclear, industrial, chemical, demolition, and construction activities.

All award recipients maintain internal standards for instructor selection and training, with many instructors also being OSHA-qualified. Instructors with expertise in DOE operations and federal regulations lead courses, often incorporating site-specific information. **A cornerstone of the NIEHS/DOE program is the peer training model** – peer trainers (or instructors) are experienced employees who are well-versed in performing specific tasks in a hazardous environment, have hands-on experience, and train other workers or colleagues.

Award recipients offer training courses in a variety of formats. Options include online modules for self-paced learning, in-person workshops for interactive instruction, and programs that combine both online and classroom elements through blended learning. Training courses also feature discussion sessions and practical exercises to enhance understanding and engagement, ensuring that training accommodates different learning styles.

Training Participants

The NIEHS/DOE program trains a variety of workers engaged in work activities at DOE nuclear weapons and legacy sites. Trainees include crane operators, carpenters, welders, laborers, chemical operators, firefighters, construction workers, electricians, environmental technicians, insulators, laboratory technicians, machinists, pipe fitters, and truck drivers.

Some training courses are extended to Tribes and community members near the DOE complex. This training helps them gain certifications and skills that increase their eligibility for employment at a nearby DOE site or keep them prepared if called upon in an emergency.

Collaboration With DOE National Organizations and Programs

NIEHS and award recipients collaborate with:

- **DOE Office of Environmental Management (EM).** The EM mission is to complete the safe cleanup of environmental legacy waste resulting from decades of nuclear weapons development and government-sponsored nuclear energy research. EM is responsible for managing and directing the cleanup of contaminated nuclear weapons manufacturing and testing sites across the United States. Integral to that responsibility is the need to safely disposition large volumes of nuclear waste, safeguard and prepare for disposition of nuclear materials that could be used in nuclear weapons, deactivate and decommission several thousand radiologically and chemically contaminated facilities no longer needed to support the Department of Energy's mission, and remediate extensive surface and groundwater contamination. The Memorandum of Understanding between WTP and DOE provides funding to award recipients to support EM's mission by providing critical worker safety and health training.
- **The Volpentest Hazardous Materials Management and Emergency Response (HAMMER) Federal Training Center.** Multiple award recipients have supported the HAMMER facility since its inception 29 years ago. Training efforts at HAMMER have improved worker safety, reduced potential exposures, and supported completion of multiple missions at the Hanford site. The HAMMER facility is supported by DOE and its contractors, national and international labor organizations, and the local government and community.
- **DOE National Training Center (NTC) Health and Safety Training Reciprocity program.** The DOE Reciprocity Certification Program is managed by the NTC. This program allows workers from one site to transfer their training credits to other DOE sites, thereby reducing the repetition of fundamental safety and health training and supporting critical training resources to job-activity-specific training. These efforts can improve consistency in core training content and communications with site contractors. The NTC is also the federal sponsor for the Energy Facility Contractors Group (EFCOG) and the [separate Labor Training Working Group](#).
- **The DOE EFCOG and the Labor Training Working Group.** The EFCOG is a self-directed membership organization of DOE contractors. The EFCOG promotes excellence through improvement initiatives and sharing best practices. The Labor Training Working Group is made up of labor representatives. Several award recipients participate in the EFCOG and Labor Training Working Group; this allows direct communication with DOE leadership and improves coordination of activities with DOE contractors and the EFCOG leadership.

A National Asset in Emergency Response

The NIEHS/DOE program represents a large pool of trained workers who can respond to accidental or deliberate radiological or hazardous material events. Additionally, NIEHS has a network of award recipients that can deliver training and respond to infectious disease outbreaks, extreme weather events, and other disasters. WTP has developed a mechanism for identifying and mobilizing these pre-trained, experienced workers. This network of trained workers has proven to be an asset in national security and emergency response.

Program Training Data, 2024–2025

Training Summary

From August 1, 2024 - July 31, 2025:



DOE contractors require standard safety and health training to support ongoing DOE missions, while simultaneously preparing the next generation of workers for future challenges and missions. NIEHS/DOE award recipients leverage ongoing programs and help train and qualify new DOE workers. For example, several award recipients support site-specific occupational and radiological control technician training programs and the Occupational Safety and Health Administration’s (OSHA) 10- and 30-hour safety training courses.

Training Locations

From August 1, 2024, to July 31, 2025, workers were trained at or around 28 sites (see map, Figure 1). The number and size of the sites demonstrate the scope of the program. A complete list of DOE sites is available in the Data Tables section of this report.

Figure 1 also summarizes the number of DOE workers trained across the country. The locations with the highest numbers of workers trained reflect the sites with the most extensive cleanup operations for DOE EM.

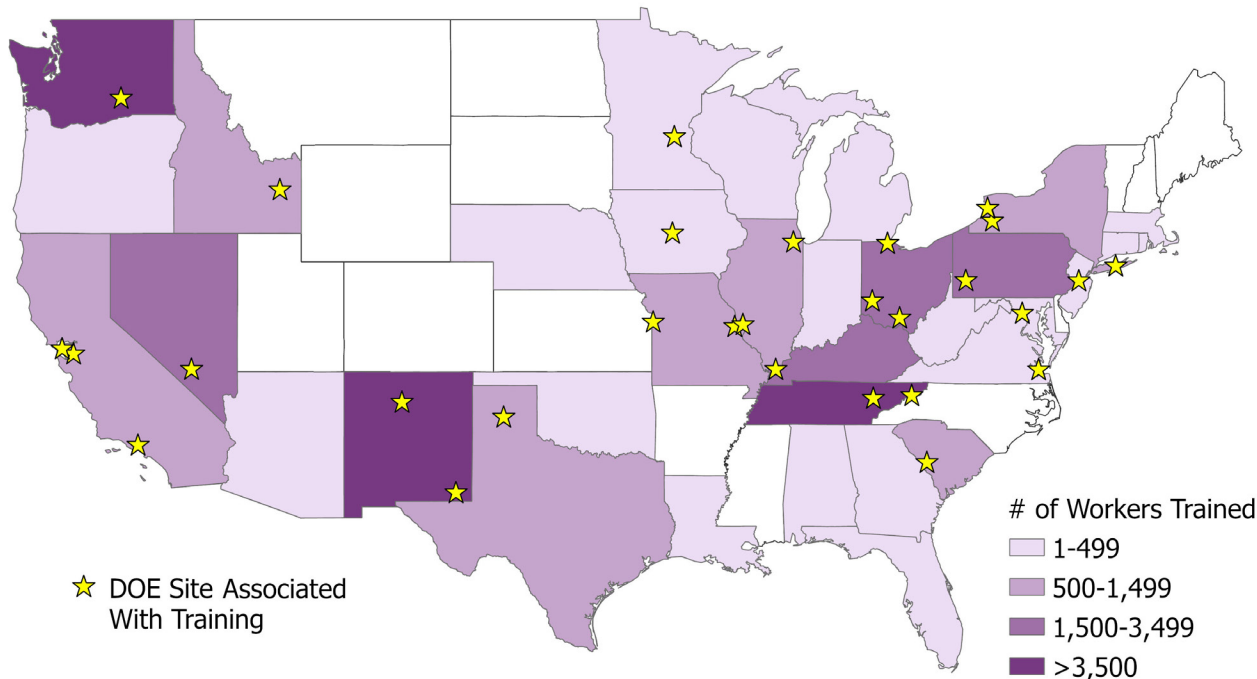
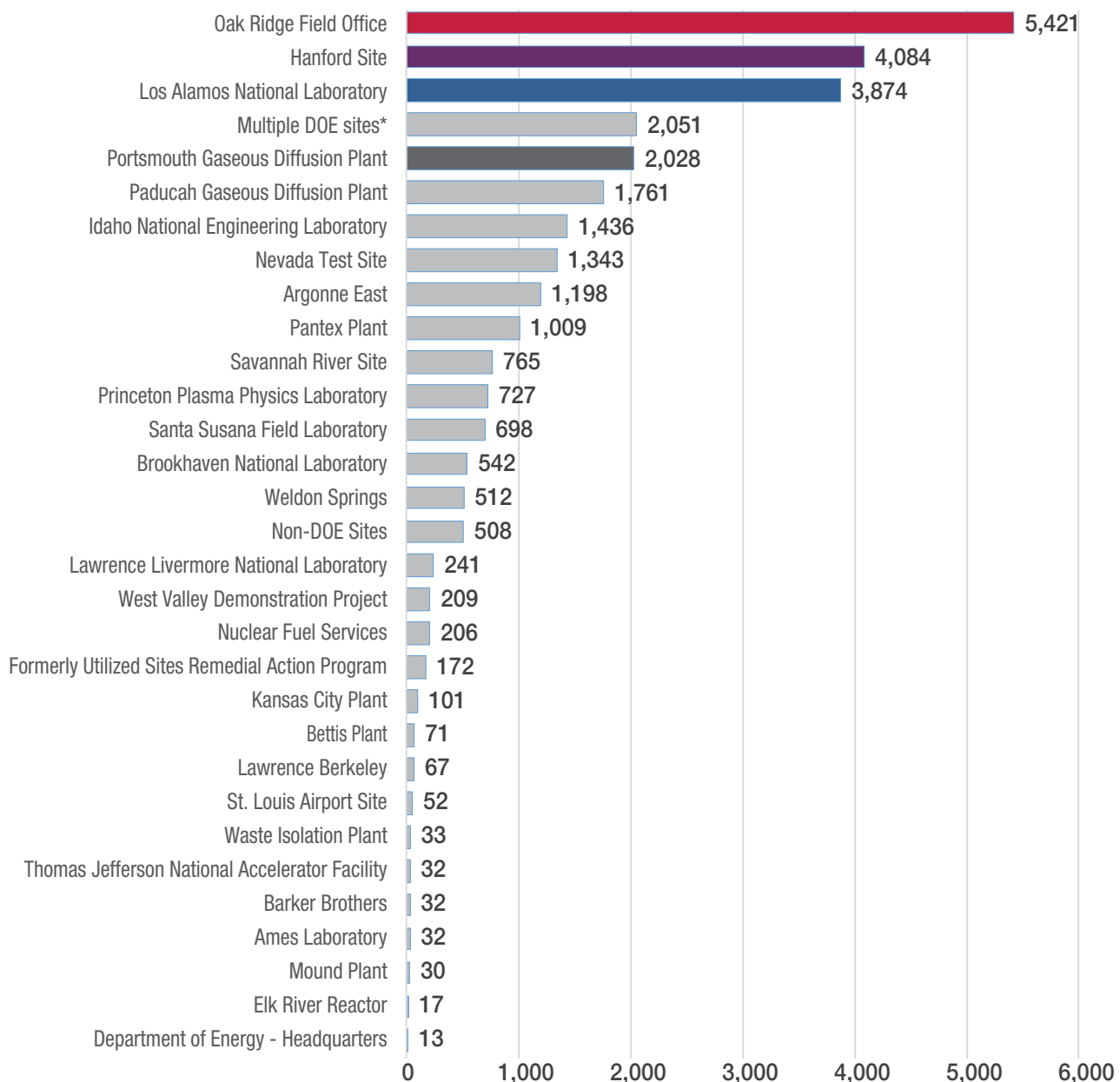


Figure 1: Map shows number of workers trained by state and DOE sites associated with training

The figure below (Figure 2) shows sites with the highest numbers of workers trained. **Oak Ridge** had the highest number of workers trained, followed by **Hanford**, **Los Alamos**, and **Portsmouth Gaseous Diffusion Plant**.



* The 28-site total excludes training for “multiple sites” which occurred in Georgia, Indiana, Michigan, Maryland, West Virginia, Alabama, Connecticut, District of Columbia, Arizona, Nebraska, Florida, Massachusetts, Louisiana, Wisconsin, Oklahoma, Rhode Island, and Oregon. Multiple sites indicate either: online classes where participants were located in any of the states listed or the states where participants traveled to get training.

Figure 2: Number of workers trained by DOE site

Top Courses at Top Sites

Figure 3 (below) shows the top four courses at the sites with the highest number of workers trained from August 1, 2024 - July 31, 2025.

Top Courses, by Workers Trained, by Site

Portsmouth Gaseous Diffusion Plant	Hanford Site	Los Alamos National Laboratory	Oak Ridge Field Office
 795 Site Worker Refresher	 3,608 Site Worker Refresher	 1,516 Site Worker Refresher	 2,375 Site Worker Refresher
 665 Radiological Control Technician Training	 218 Basic Superfund Site Worker	 455 Hazardous Waste Characterization	 733 Asbestos Abatement Worker Refresher
 153 Asbestos Abatement Supervisor Refresher	 100 Load Securement	 347 Confined Space	 674 General Construction Safety
 114 General Construction Safety	 40 RCRA TSD* Site Worker	 303 Crane Operators	 421 Basic Superfund Site Worker

Figure 3: Number of workers trained by DOE site and course category

* RCRA TSD: Resource Conservation and Recovery Act Treatment, Storage, and Disposal Facility

Training Course Categories

Figure 4 (below) shows the number of **workers trained** and **total contact hours** for various courses from Aug. 1, 2024 - Jul. 31, 2025. These courses ensure worker and site safety and worker readiness for employment. A full list of training courses, organized by categories, is available in the Data Tables section of this report.

The highest numbers of workers received training in **Site Worker Refresher**, **Site Worker/Superfund Cleanup**, and **OSHA Outreach** courses.

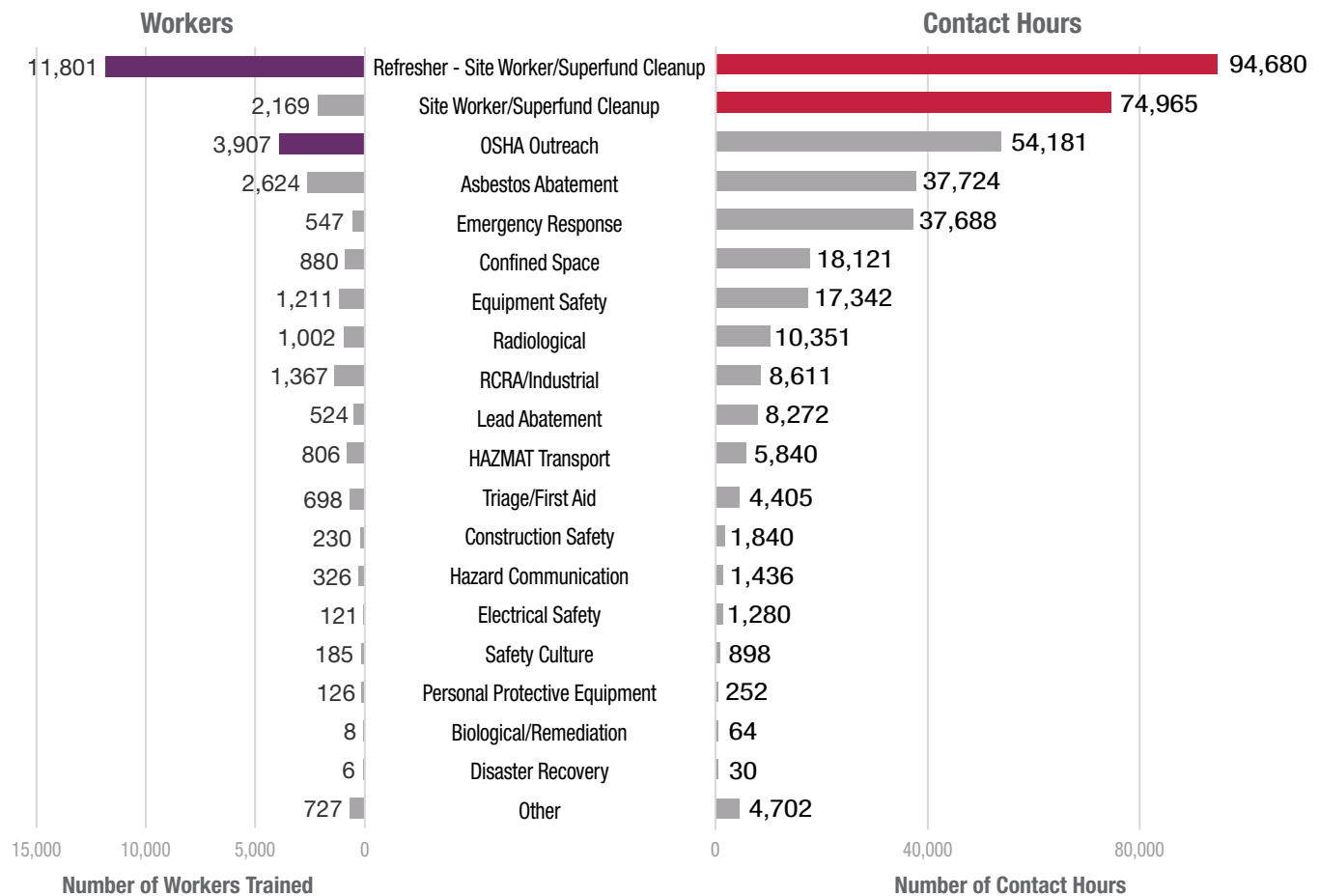


Figure 4: Number of workers trained and contact hours by course category

“As the director of the DOE National Training Center, I think it is imperative for all training organizations and subject matter experts to explore avenues for expanding partnerships and collaboration. Every DOE Site possesses training materials that are valuable and could be of use beyond one site. I am committed to working with all training organizations to enhance the quality and accessibility of training to every DOE worker, which is crucial for successfully accomplishing DOE missions. Through collaborative efforts, we can pinpoint the most desired topical courses, exchange training resources, and collectively achieve the training goals of the DOE and its contractors.”

— Gabe Pugh, National Training Center Director, 2023-2025

Top 3 Activity Highlights

Highlight #1 ICWUC Empowered Workers to Uphold Safety Culture



Figure 5: ICWUC Training

A student, trained by the International Chemical Workers Union Council Center for Worker Health and Safety Education (ICWUC), applied knowledge from training to advocate for safety. The student noticed the configuration and location of a confined space situation and questioned their field work supervisor on whether it should be classified as a permit-required confined space. When this concern was raised with the field work supervisor, the student encountered resistance. However, the student recalled from training that any additional hazard necessitates a permit-required confined space. After further discussions with the onsite safety team, they decided to modify the work plan to avoid entering the confined space altogether. This ensured the work was conducted safely, preventing unnecessary risks due to the supervisor's misunderstanding of permit-required confined space requirements.

The student's questioning attitude and adherence to safety training played a crucial role in identifying and addressing a potential risk, ultimately preventing potential hazards associated with confined space entry. By challenging the supervisor's initial assessment and involving the safety team, the student helped ensure that the work was done safely. This incident underscores the importance of recognizing and addressing all potential hazards in confined spaces, as well as the value of fostering a culture where employees feel comfortable raising safety concerns. The decision to modify the work plan and avoid entering the confined space altogether eliminated the risk of exposure to hazardous conditions, thereby protecting the health and safety of the workers involved.

Highlight #2 CPWR Helps Set New Standards for Safety, Health, and Environmental Training

Gary Gustafson, environmental training director for CPWR – The Center for Construction Research and Training (CPWR), took the helm of an underperforming national standard setting workgroup and accomplished the passage of a new American National Standards Institute/American Society of Safety Professionals (ANSI/ASSP) A10.2 Safety, Health, and Environmental Training Standard for Construction and Demolition Operations. This standard plays a critical role in the construction industry by setting guidelines that ensure worker safety and well-being. The standard also supports employers in establishing best practices for safety, health, and environmental training. CPWR's leadership in finalizing the standard's development was instrumental in enabling ANSI/ASSP to complete the standard writing, achieve a successful vote, and ultimately publish an approved standard.

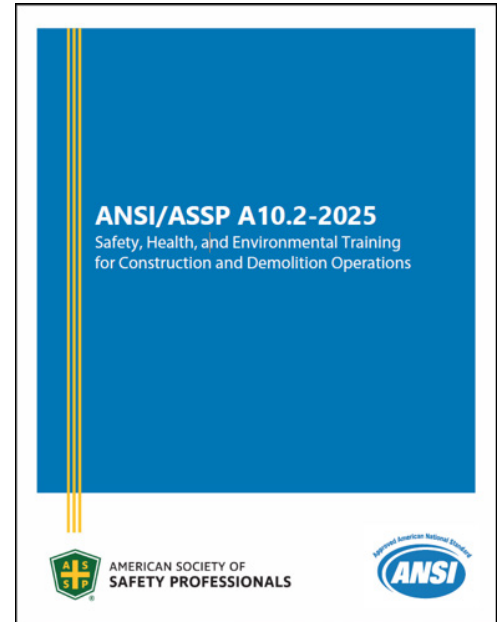


Figure 6: ANSI A10.2 Safety, Health, and Environmental Training for Construction and Demolition Operations.

Highlight #3 IAFF Prepares for Transportation Disaster



Figure 7: IAFF Training Course

Hazardous materials (HAZMAT) incident response requires firefighters to apply a systematic decision-making process for safe and efficient operations. The International Association of Fire Fighters (IAFF) developed the HAZMAT Technician course for firefighters who respond to incidents involving hazardous materials.

In September 2024, IAFF delivered their HAZMAT Technician course to 21 members of the Lubbock Fire Department in Lubbock, Texas. The Pantex Plant DOE site is located approximately 122 miles from Lubbock, Texas, placing it within the 150-mile training radius established under the IAFF-DOE funding agreement. Given this proximity, departments like the Lubbock Fire Department represent an essential part of the regional response network that could be called upon to support a high-consequence event at or near the Pantex Plant. The HAZMAT Technician course trains participants on how to conduct a safe, competent response to HAZMAT incidents by using IAFF's risk-based response process to: Analyze the incident, Plan the response, Implement the planned response, and Evaluate the progress (APIE). The HAZMAT Technician course addresses key issues related to health and safety that can reduce the risk of injury, illness, and death. The course covers various topics, including detection, monitoring, and sampling; APIE; selection of personal protective equipment (PPE); decontamination; and more.

The skills the Lubbock Fire Department students learned in the September 2024 HAZMAT Technician course proved vital. [In Lubbock, TX, on March 27, 2025](#), a semi-truck collided with a train, prompting a Level 3 HAZMAT response.

The semi-truck and train collision resulted in a chemical leak of approximately 10 gallons of malathion — a hazardous pesticide classified under placard 3082, which poses physical contact and environmental risks. Some of the students who took IAFF's HAZMAT Technician course responded to the scene. HAZMAT crews donned their PPE and contained the leak to prevent it from reaching nearby storm drains.

Despite extensive damage to the semi-truck's trailer, the Lubbock Fire Department's Heavy Rescue Team was called in to stabilize the trailer, allowing the HAZMAT team to safely offload the remaining malathion. Due to the department's swift, efficient, and safe response, no injuries were reported. Cleanup and containment efforts were successfully completed without additional impact.

Ongoing, New, and Upcoming Initiatives

NIEHS Program Leadership and Activities

WTP staff and award recipients remain engaged in several initiatives with DOE partners. During the 2024–2025 year, this included:

Briefings and update meetings with DOE EM

WTP staff provided periodic status updates as part of the NIEHS review and selection process for the next five-year award cycle. Additionally, WTP staff identified federal attrition and DOE staff changes as continual challenges and focus areas for the upcoming year. WTP staff are committed to sharing institutional knowledge and program capabilities with individuals who are assuming new roles within the EM, DOE Offices, and the contractor community.

Building and maintaining partnerships

At the request of Savannah River Site, award recipients provided several OSHA courses to workers onsite. WTP award recipients provided 10-hour OSHA general industry and construction courses for interns. They also provided multiple 30-hour OSHA industry and construction courses for industrial hygiene and safety professionals. Overall, these courses helped improve general safety knowledge for interns and entry-level industrial hygiene and safety professionals.

Conferences, workshops, special trainings, and committee activities

March 2025 EFCOG Training Working Group meeting

In March 2025, WTP staff participated in the EFCOG Training Working Group Annual meeting held at Lawrence Livermore National Laboratory.

Award recipients and other attendees shared details with one another about ongoing safety and health course deliveries at DOE sites across the country. Attendees also provided guidance on obtaining additional information to meet their training needs. The NIEHS/DOE Fact Sheet was also made available to attendees.

Monthly learning sessions

Recently, WTP award recipients were invited to attend the monthly [Training EFCOG](#) of Environment, Health, Safety, and Security learning sessions. Topics for recent sessions have included: DOE Reciprocity Certification Program updates, emerging hazards and workforce preparedness, and lessons learned from site-specific training implementations.

Enhancing the Exchange of Training Resources

Several DOE representatives continue to raise concerns about duplicative training that DOE contractors require of employees, as well as the limited ability to transfer core training content. WTP continues to share and expand core training content at various EM sites, including Los Alamos National Laboratory, Hanford, Oak Ridge, and the Portsmouth Paducah Project Office. The award recipients' core curricula are reviewed by the local contractor and, in many cases, include site-specific content.

In addition, WTP award recipients have been working with the NTC and the EFCOG Training Working Group. Efforts are underway to expand the use of reciprocity, share course content through the NTC Course and Related Data System, and provide access to complete training records. WTP is also working with the NTC to develop communication materials, such as an informational video, to increase contractor and other personnel's awareness of the NIEHS/DOE program.

WTP Fall 2024 workshop



Figure 8: WTP Fall 2024 Workshop Banner

The WTP Fall 2024 Workshop, “Identifying Health and Safety Training Approaches for Emerging Issues and High-Risk Industries,” took place on October 22-24, 2024. The event included information pertinent to the NIEHS WTP/DOE program.

During one of the panel discussions, “Meeting Needs in Nuclear Facilities and Alternative or Renewable Energy,” Maya Goodwin, with the DOE Office of Energy Jobs, discussed regional hydrogen hubs and various DOE workforce development investments available to support the expansion of the energy workforce. Goodwin also spoke about how increasing the energy infrastructure will present a significant opportunity to connect millions of people with energy jobs.

As the energy workforce at DOE expands, training remains crucial for maintaining worker safety at DOE sites. Evan Dunne from the NTC spoke about training challenges and opportunities at DOE facilities. Dunne highlighted the importance of DOE partnerships with WTP award recipients to help connect the training population with skilled trainers.

WTP Spring 2025 workshop

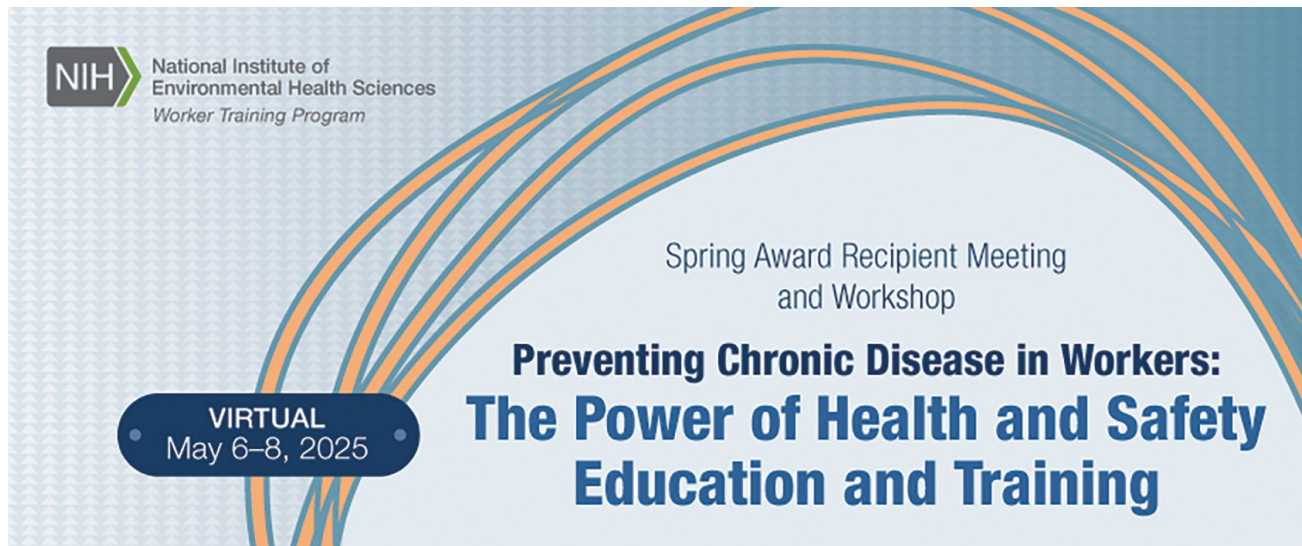


Figure 9: Spring 2025 WTP Workshop Banner

The WTP Spring 2025 workshop, “Preventing Chronic Disease in Workers: The Power of Health and Safety Education and Training,” was held virtually on May 7–8, 2025, and included speakers connected with the NIEHS/DOE program. Workshop participants, including WTP award recipients, subject matter experts, and NIEHS staff, explored strategies to prevent, reduce, and manage chronic disease among workers.

Presenters identified screening programs as important tools to detect and reduce the severity of chronic conditions. Presenters highlighted two long-standing screening efforts: the [Worker Health Protection Program \(WHPP\)](#) and the [Building Trades National Medical Screening Program \(BTMed\)](#). WHPP, created in 1998 through a partnership between DOE and CPWR, is the largest occupational medical screening program in the nation.

The BTMed program, established in 1996, provides free medical screenings for construction workers previously employed at DOE nuclear facilities. Working through a national network of clinics, BTMed offers chest X-rays, lung exams, hearing exams, colorectal screenings, and more. The program has enrolled roughly 30,000 workers — including electricians, laborers, and pipefitters — and conducts exams every three years. Knut Ringen, scientific advisor for CPWR, shared preliminary data from a study that showed that, of participants who were diagnosed with work-related conditions, 19% were diagnosed through X-rays and 23% were diagnosed through lung exams. For more information, please see the published study, “[Evaluation of Early Lung Cancer Detection in a Population at High Risk Due to Occupation](#).”

In addition to physical health concerns, the workshop also spotlighted mental health challenges that first responders experience. Jamie Burgess with the IAFF described the “mental health crisis” among firefighters. Burgess noted that 97% of firefighters have encountered a traumatic event in the past six months, and one in five have experienced PTSD. Stigma remains a major barrier to seeking help, with 92% reporting it as an obstacle. IAFF has created peer support programs, supported policies like mandatory wellness checks, and established a Center for Excellence which offers residential mental health care. A second center is planned to support firefighters in the western U.S., reflecting IAFF’s commitment to ensuring readily available, stigma-free mental health services across the country.

Safety Culture

Award recipients continue to incorporate information on workers' rights and the importance of improving safety culture into their training.

Sharon Beard, Director of NIEHS WTP, Ashlee Fitch from the United Steelworkers, and Charles Austin from the International Brotherhood of Teamsters participated in a panel in August 2024 as part of the DOE Safety Culture Improvement Panel Annual Meeting and Safety Culture Workshop entitled "Labor Perspectives on Safety Culture." During the panel, Beard highlighted the advantages of utilizing the NIEHS award recipient training and shared how training and education can lead to worker empowerment and improved safety culture. Austin also shared real world examples of how the training from NIEHS/DOE classes is being utilized. Finally, Fitch spoke about collaborative efforts around occupational safety and health training and the importance of using partnerships to overcome challenges.

Reciprocity Through NTC

WTP continues to participate in the DOE Reciprocity Certification program. Over half of NIEHS/DOE award recipients participate in the program and hold certifications for over 40 courses.

Workers coming to DOE sites often receive training before they are hired, and facility or contractor acceptance of training improves project mobilization and reduces hiring costs. Reciprocity course certification allows workers to transfer fundamental training between DOE contractors and sites, improving project mobilization and enhancing course consistency between contractors. Reciprocity saves money for DOE by eliminating redundant fundamental training and allowing contractors to redirect resources to job- or site-specific training or other training prior to job qualification. The EFCOG Training Working Group supports this initiative, and a task team was recently formed to improve methods of sharing training completion records.

The policy document, [DOE P 364.1, Health and Safety Training Reciprocity](#), describes the department's expectations for the DOE Reciprocity Certification program, which supports reducing the repetition of fundamental training material while still meeting established health and safety requirements. The Training EFCOG evaluates methods to improve participation and expand the use of reciprocity in the annual work plan. A list of [approved reciprocity training courses](#) is available online.

The ability to help DOE contractors address in-house instructor needs is an indirect benefit of having NIEHS/DOE award recipients participate in reciprocity. For examples, see the next section, National and Site-Specific Collaborations With the DOE Site Contractor Community.

Current organizations funded by the NIEHS/DOE Program, along with their reciprocity certifications, include:

- CPWR: HAZWOPER, Confined Space Entry, Safety Culture Total Learning Program-100
 - CPWR Consortium Members
 - National Ironworkers and Employers Apprenticeship Training and Journeyman Upgrading Fund: HAZWOPER, Fire Watch, Scaffold Safety
 - United Association of Journeymen and Apprentices of the Plumbing and Pipe Fitting Industry of the United States, Canada: Confined Space Construction
 - Electrical Training Alliance/International Brotherhood of Electrical Workers: National Fire Protection Association (NFPA) 70E Standard for Electrical Safety, NFPA 70 Code Update.

- LIUNA Training and Education Fund: HAZWOPER, Radiological Worker I and II, Hazard Communication Standard, Asbestos Awareness, Excavation/Trenching Awareness, Basic Crane and Basic Rigging Safety, Fire Watch, Scaffold Safety for Inspectors, Silica Awareness, Heat Stress Prevention and First Aid, Lead Worker Initial, Mobile Crane Hazard Awareness, Portable Metal Ladders for Construction, Radiation Worker I and II, Construction Occupational Noise Awareness, and Apprenticeship Certification.
- United Steelworkers (USW) Tony Mazzocchi Center (TMC) for Health, Safety, and Environmental Education: HAZWOPER, Resource Conservation and Recovery Act Initial, and Radiological Control Technician Academics.

National and Site-Specific Collaborations With the DOE Site Contractor Community

The NIEHS/DOE Program continues its collaborations with the contractor community. The goal is to establish relationships that enable award recipients to deliver training at no or reduced cost to the sponsoring contractor, which could reduce redundancy and contractor costs and fill contractor training gaps. WTP is working with the NTC and EFCOG to improve manager and contractor leadership knowledge regarding the availability of award recipient-provided training support.

DOE Liaison

WTP continues a relationship with Ted Giltz, a part-time liaison with extensive DOE experience, to leverage existing training capacity and educate new DOE contractors. Giltz started in the DOE liaison position in October 2018 and will continue providing support and assistance for many of the initiatives described in this report. Giltz is leading discussions with the EFCOG Training Working Group and the NTC to better understand contractors' needs and educate them on award recipient capabilities.

"The NIEHS Worker Training Program brought four award recipient training partnerships to Los Alamos National Laboratory (LANL): IBT, CPWR, ICWUC, and PETE. These award recipients provide experienced instructors who draw on years of field expertise to deliver high-quality, consistent instruction across several institutional safety programs. Their continued partnership has resulted in significant training cost savings for the Laboratory. We value their support and look forward to welcoming them back each year."

— Andy Ainsworth, LANL Training Manager



Figure 10: This model shows expanding training delivery at DOE sites through partnership and collaboration.

Award Recipient Training for Contractor Employees

WTP continues to communicate training capabilities and availability to DOE staff and contractors. DOE and contractor leadership are often unaware of the skills and services offered through NIEHS/DOE award recipient training due to DOE personnel changes, attrition of both DOE and contractor leadership, and routine promotions and changes in DOE contractor organizations. The DOE liaison has increased participation with the EFCOG Training Working Group to improve their knowledge of award recipient capabilities.

WTP staff and award recipients are pursuing collaboration and partnerships with the DOE contractor community through several efforts.

- Developing materials that explain how DOE sites can partner with WTP award recipients for training delivery:
 - NIEHS/DOE [partnership fact sheet](#), which provides information for sites and contractors to partner with award recipients for training at DOE sites.
 - NIEHS/DOE [partnership process and roles and responsibilities document](#), which provides guidance and facilitates discussions with new or ongoing NIEHS award recipient/DOE site contractor partnerships.
- Approaching DOE sites already using NIEHS/DOE Program award recipients for training to maintain and expand training support, as their contractor organizations undergo continued fiscal and staffing pressure.
- Participating in EFCOG Training Working Group meetings and Lessons Learned and Monthly Learning Sessions webinars, while continuing to educate EFCOG members on available training options.

Benefits of using NIEHS/DOE Program award recipient training include:

- **Worker trainers.** Award recipients encourage the use of worker-trainers who deliver the training material as peers and as experienced and skilled employees in their trade.
- **Expert instructors, quality materials, and mobile support.** Award recipients provide effective safety training through instructors who are experts and who have worked in the field on the topic. This is helpful to DOE sites, since many contract organizations no longer have in-house competencies in specialty training for electrical safety, scaffold awareness, fire system maintenance, condensate-induced water hammer, crane/rigging, and trenching. Staff attrition is a problem that is seen more frequently across smaller contract organizations. Award recipients can provide quality training materials, staff, and in some cases, safety and health subject matter experts and mobile training to contract organizations that do not have full-time training staff.
- **Reciprocity.** Contractor acceptance of certified reciprocity and award recipient training helps expand training access to a workforce that has already completed fundamental safety training in many areas. Reciprocity certifications also avoids retraining and other project mobilization costs.
- **Promote DOE initiatives.** Award recipients assist and promote DOE initiatives and programs, such as Integrated Safety Management and safety culture.

As WTP engages in these partnerships, each DOE site brings unique situations and challenges, and the lessons learned are applied as WTP moves forward. These lessons allow refinement in the process used to begin conversations with a site (see Figure 11 below).

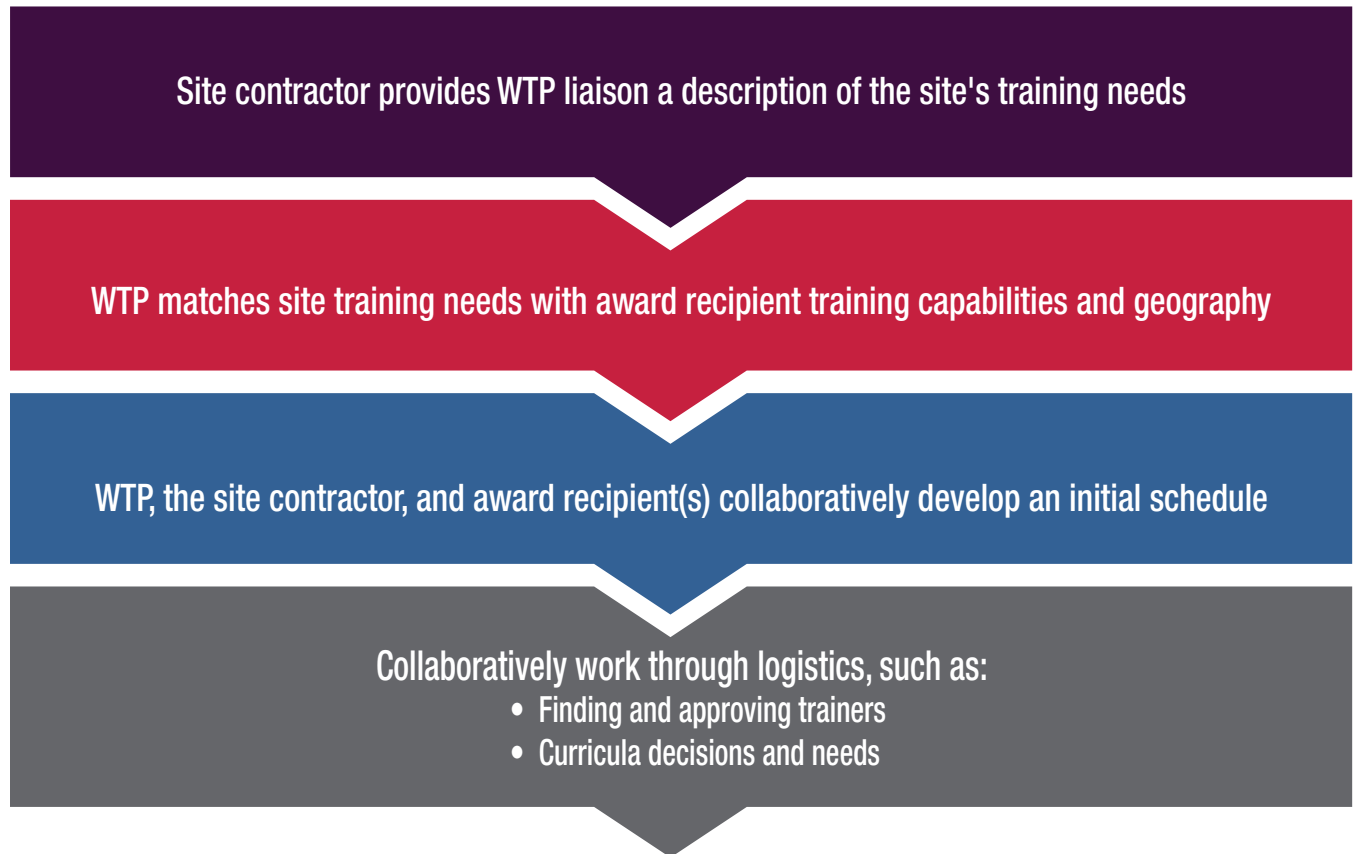
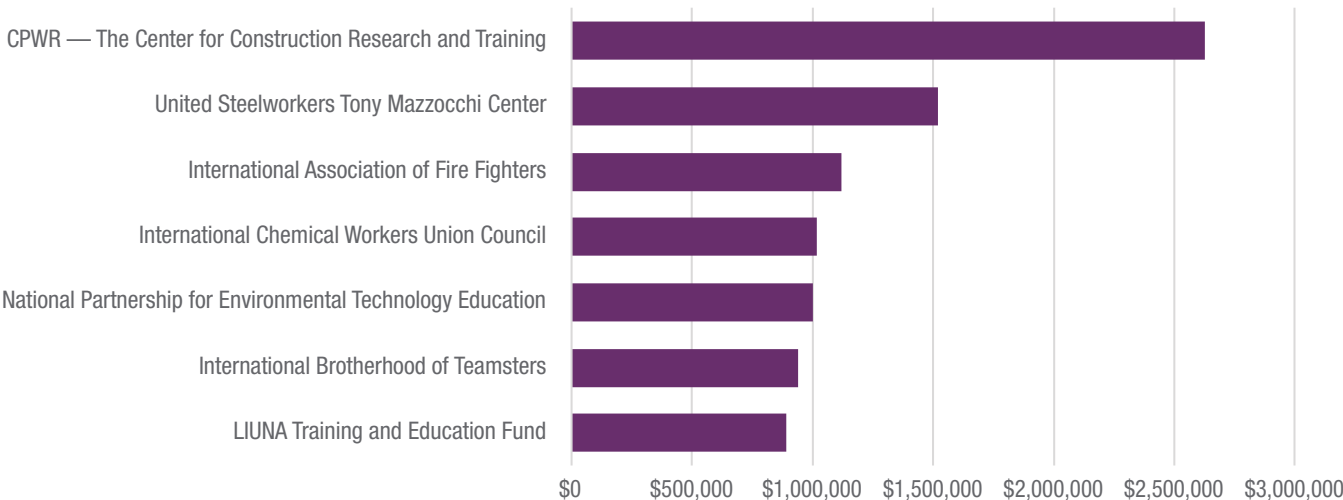


Figure 11: The process used to connect award recipients to DOE site contractor training needs.

Program Funding and Award Recipients

Funding

Through a cooperative agreement mechanism, WTP provided \$9,120,799 in funding to NIEHS/DOE Program award recipients. WTP funded seven award recipients to deliver training during the 2024 – 2025 funding period.



Institution	2024-2025 Funding
CPWR—The Center for Construction Research and Training	\$2,625,953
United Steelworkers Tony Mazzocchi Center	\$1,520,579
International Association of Fire Fighters	\$1,120,000
International Chemical Workers Union Council	\$1,018,218
National Partnership for Environmental Technology Education	\$1,002,953
International Brotherhood of Teamsters	\$940,372
LIUNA Training and Education Fund	\$892,724
Total	\$9,120,799

Figure 12: NIEHS/DOE award recipients and funding levels for the 2024 - 2025 funding period or training year.



Program Award Recipients (Sept. 2020 – July 2025)

CPWR – The Center for Construction Research and Training (CPWR)

CPWR is sponsored by North America's Building Trades Unions, which represents 14 international and national building trades unions. Their training consortium includes international and national unions in the following construction fields: insulators and asbestos workers, iron workers, boilermakers, painters, bricklayers, plasterers and cement masons, carpenters, plumbers and pipe fitters, electrical workers, roofers, and sheet metal workers. CPWR provides training for many DOE sites across the country.

International Association of Fire Fighters (IAFF)

IAFF represents full-time professional firefighters and paramedics in more than 3,200 local affiliates. Its members protect more than 85% of the population in communities throughout the U.S. and Canada. IAFF implements national programs for all-hazards emergency response and recovery training that meet or exceed minimum federal regulations and national industry standards requirements. IAFF provides training at or around many DOE sites across the country.

International Brotherhood of Teamsters (IBT)

Through partnerships with major trucking and rail unions, IBT works with:

- Remediation site workers and supervisors at DOE facilities.
- Construction workers and supervisors involved in the remediation of DOE facilities, including drivers of specialized off-road and waste-hauling vehicles.
- Truck transportation workers and supervisors involved in the transportation of radioactive and chemical waste from DOE facilities.
- Railroad workers and supervisors involved in the transportation of radioactive and chemical hazardous waste from DOE facilities.

IBT delivers training for many DOE sites by bringing members to their regional training centers across the country.

International Chemical Workers Union Council (ICWUC) Center for Worker Health and Safety Education

The ICWUC Center for Worker Health and Safety Education provides training on the dangers of hazardous materials and waste at nuclear facilities. The program's consortium partners are the International Association of Machinists and Aerospace Workers (IAMAW) and the University of Cincinnati. ICWUC primarily trains workers at the Hanford Site in Washington, Kansas City National Security Campus in Missouri, Los Alamos National Laboratory in Texas, and Oak Ridge National Laboratory in Tennessee.



The Laborers' International Union of North America (LIUNA) Training and Education Fund

LIUNA services the training needs of thousands of construction workers across their network, including at the Hanford Site, the Idaho National Engineering Laboratory, the Nevada Test Site, and Los Alamos National Laboratory. Each year, LIUNA members and apprentices receive training at one of the state-of-the-art training facilities that comprise LIUNA's training network.

National Partnership for Environmental Technology Education (PETE)/Community College Consortium of Health and Safety Trainers (CCCHST)

The CCCHST, administered by PETE, represents more than 150 training organizations, including colleges and universities, community-based organizations, governmental units, independent training providers, and a union. These groups offer hazardous waste training in most states. PETE primarily provides DOE-relevant training at colleges near Oak Ridge National Laboratory, Pantex Plant in Texas, and Savannah River Plant in South Carolina.

United Steelworkers (USW) Tony Mazzocchi Center (TMC) for Health, Safety, and Environmental Education

USW TMC offers well-established health and safety training programs and has more than 200 national and site-specific trainers who recruit and train workers. Many USW members are concentrated in the paper, petroleum, chemical, rubber, plastics, and primary metals industry groups, all of which generate large quantities of hazardous waste and experience large quantities of toxic releases. USW TMC primarily provides training at Hanford Site, Idaho National Laboratory, Oak Ridge National Laboratory, Paducah Gaseous Diffusion Plant in Kentucky, and Portsmouth Gaseous Diffusion Plant in Ohio.

Award Recipient and Site Highlights

Examples of Skills and Utility of Courses by Training Participants and DOE Site Contractors

CPWR – The Center for Construction Research and Training

While taking a CPWR 40-hour Hazardous Waste Worker course, a federal OSHA representative recognized the training was preparing workers to be safety-conscious on the jobsite. The OSHA representative provided the following comment:

“I would like to state that I was very impressed as an OSHA employee to see [Local] 150 members being proactive & participating in answering questions and exercises. I attended the full week of training and was never required to answer anything because of each member’s willingness to be active throughout the course. Based on my experience, I know that Local 150 and their members are taking safety as a priority. The course was very informative and thorough with good demonstrations.”

International Association of Firefighters (IAFF)

From November 4–8, 2024, the IAFF delivered a Confined Space Rescue course to the Idaho Falls Fire Department at the request of IAFF Local 1565. This was the Idaho Falls Fire Department’s first IAFF training initiative. The course convened nearby regional responders from the Ammon Fire Department, Bonneville County Fire District, and the Idaho National Laboratory Fire Department, strengthening multi-agency preparedness and response capacity for high-risk incidents at the Idaho National Engineering Laboratory.



Figure 13: IAFF Training Course

International Brotherhood of Teamsters (IBT)



Figure 14: IBT HAZWOPER training at the DOE HAMMER Site

The International Brotherhood of Teamsters (IBT) conducts its DOE Worker Training activities through the IBT Worker Training Program and the IBT Rail Workers Hazardous Materials Training Program. IBT training provides certification aligned with OSHA standards, DOE, and Department of Transportation training regulations for DOE site remediation workers, hazardous waste workers, emergency responders, and hazardous materials transportation workers. Without this certification, employers cannot legally employ these workers for these types of work.

IBT conducts classes using a combination of blended learning via virtual and in-person training. All in-person training activities are conducted in compliance with all federal guidelines and best practices developed by the IBT Worker Training Program and the DOE Worker Training Program.

International Chemical Workers Union Council (ICWUC)

Collaboration between ICWUC and the International Association of Machinists and Aerospace Engineers (IAMAW)

IAMAW continues its partnership with ICWUC, providing high-quality, site-specific training programs across all DOE facilities. As joint union representatives of these sites, IAMAW and ICWUC collaborate on instructional design and development of dated training materials tailored to the unique needs of each location. These efforts ensure a consistent and comprehensive standard of safety and operational training across the DOE complex.

A notable example of this collaboration was a disaster trainers exchange/train-the-trainer event held in October 2024. This was a fantastic opportunity where new Oak Ridge National Laboratory trainers had the chance to visit the Hanford training facility and gain valuable, hands-on experience.

This trainers exchange was especially beneficial because it supported knowledge transfer, consistency in training delivery, and professional development across sites. By observing established trainers, participating in real-world exercises, and sharing best practices, the novice Oak Ridge trainers alongside experienced Hanford trainers were better prepared to deliver high-quality, standardized training. The collaboration also strengthened cross-site relationships and helped ensure alignment in response training objectives, making the exchange a high-value investment for all parties involved.



Tank Farms H2C Subcontracted Work

Hanford Tank Waste Operations and Closure (Tank Farms H2C) subcontracted workers who had the task of retrofitting, cutting, and gluing tarp liners to cover pits. During this process, subcontracted workers used toluene to clean and prepare areas for gluing. Toluene can irritate the eyes, skin, and respiratory tract, and extended exposure can cause kidney and liver disease.

For many positions, including these subcontracted positions, new workers assigned to the Hanford mission are required to complete 40-hour health and safety training as a condition of employment. This requirement helps ensure workers are prepared to perform their duties safely in a complex and hazardous environment.

A new worker on this project was reviewing the work package and noted that daily glove changes were necessary for adequate protection. However, in the field, crews were observed using the same gloves for up to a week. Repeated use can allow chemicals to saturate the gloves and wear away the material, resulting in diminished protection for workers. The new worker informed the work crews that they needed to change gloves daily for proper protection. Management confirmed that the workers exiting the work area had elevated levels of volatile organic compounds on their inner gloves, indicating inadequate protection. Consequently, the entire work crew was required to change their gloves daily. The reporting worker attributed their enhanced awareness to what they learned in their HAZWOPER training.

ICWUC was pleased to learn that this worker previously received the required training from ICWUC trainers, and that the training — sponsored by NIEHS — was meaningful and had a positive impact.

The incident highlights the importance of adhering to PPE guidelines and the critical role of training and awareness in ensuring workplace safety. The proactive action taken by the new worker to enforce daily glove changes mitigated further risks and underscored the value of continuous safety education and vigilance.

The Laborers' International Union of North America (LIUNA) Training and Education Fund



Figure 15: LIUNA Training Photo

Below are testimonials from Len Morgan of United Cleanup Oak Ridge (UCOR) and Leonard Widerburg, environmental instructor and subject matter expert to Oregon and Southern Idaho Laborers Employers Training Trust (OSILETT).

Len Morgan writes:

“UCOR has a long history of success working with the LIUNA training fund.

Because UCOR provides environmental cleanup services as a federal contractor, we have annual, recurring training needs, as well as unique training needs. UCOR has always found an unwavering ally in the LIUNA Training Trust, which provides us with trainers who teach top-quality training materials to enhance our workers.

UCOR’s current contract with DOE runs through 2037. UCOR will need continued training support for our Bargaining unit employees, as we have a significant list of required trainings. These trainings include, but are not limited to: Asbestos Worker, Asbestos Supervisor, Rad Worker II, and HAZWOPER and HAZWOPER refresher, to name a few.

We expect our projected workforce to remain relatively consistent at approximately 500 craft workers for the duration of the prime contract. We will rely on LIUNA’s training facilities, trainers and expertise for a significant portion of these classes.”



Leonard Widerburg writes:

“OSILETT offers courses such as OSHA 10 & 30, First Aid/CPR/AED, Confined Space, Fall Protection, Hazardous Waste Worker, Hazard Communication, Aerial Lift and Forklift, Hoisting & Rigging, Respiratory Protection, Asbestos Abatement Worker, and other environmental protection and health and safety courses.

As an environmental instructor and subject matter expert for OSILETT, I have the opportunity to participate in teaching many of the courses under the NIEHS/DOE Grant at our Idaho Falls facility. My experience working at the Idaho National Laboratory gives me significant insight into the demands and requirements of site safety, and the training requirements and certifications needed by workers at the Idaho National Laboratory site.

Individuals who participate in our grant courses express appreciation for their ability to obtain more in-depth knowledge and skills that they can apply directly to their jobs. Obtaining certifications makes them feel more confident in their capacity to perform quality work safely and effectively. Many members comment that they are more successful on the job after taking this training. I was able to train a group of apprentices recently that were able to go to work quickly because of the training they received.

This grant allows us to support the workforce in our area to maintain current and up-to-date skills and safety certifications, health, education, and industry credentials. In addition, under this grant, we continue to strengthen our long-term training relationship with local industry partners, and with our local and laborers' community to help foster the labor need in Southern Idaho.

I look forward to continuing to provide this best-in-class, competency-based worker safety, health training, environmental protection, and worker incident preparedness training for our workforce.”

National Partnership for Environmental and Technical Education (PETE)

PETE supports in-person and virtual training programs at colleges across the U.S., including Amarillo College, Greenville Technical College, Roane State Community College, and Santa Fe Community College, ensuring students gain critical training hours and practical experience aligned with industry demands.

Amarillo College's Safety and Environmental Technology Program delivered 77 HAZWOPER, Hazardous Materials, Confined Space Entry/Rescue, and related courses to 1,485 Nuclear Production One, LLC (NPOne) Pantex employees, generating 15,348 contact hours of critical safety instruction. Notably, they delivered 20 courses — serving 273 employees and accounting for 2,520 contact hours — in a blended format, integrating online and in-person learning to enhance accessibility and flexibility.

During the 2024-2025 training period, Greenville Technical College delivered 51 state-approved asbestos training courses to 469 workers, providing 5,376 contact hours of essential training to strengthen regulatory compliance and worker protection

Santa Fe Community College significantly expanded training capacity by delivering 104 courses to 1,482 students, resulting in 4,746 contact hours of industry-aligned instruction.

During the training and reporting period, Roane Community College provided 121 courses that were strategically delivered across virtual and in-person formats at Oak Ridge, equipping 1,147 workers with essential training and producing 11,509 contact hours of high-impact instruction.



Figure 16: National PETE Training at Amarillo College



Figure 17: National PETE Training at Amarillo College

United Steelworkers (USW) Tony Mazzocchi Center (TMC) for Health, Safety, and Environmental Education



Figure 18: Group photo taken during the USW TMC Trainers' Enhancement Exchange in Pittsburgh, PA

The USW TMC hosted a Trainers' Enhancement Exchange (TEE) in Pittsburgh, Pennsylvania, the week of July 21, 2025. Unlike in previous years, the 2025 TEE was DOE-specific. This annual event is designed to bring trainers together to exchange best practices, explore new instructional techniques, and enhance their training effectiveness through interactive workshops led by both TMC staff and worker-trainers. The primary goals of the TEE are to foster collaboration, strengthen training skills, and promote informative and educational training. At the 2025 DOE TEE, workshops included:

- DOE Case Studies and Lessons Learned
- Keeping the Refresher Fresh
- Engaging Participants
- Utilizing and Training to 10 CFR 851
- Radiation and Chemical Hazards
- Using Health and Safety Training to Build the Union
- Applying Regulations in Training
- Interactive Training Methods

There were also several plenary sessions for the large group on a variety of topics, including emerging issues across the complex. Feedback from the 2025 DOE TEE was overwhelmingly positive and included great ideas for the next TEE.

Clearinghouse Activities

Clearinghouse Overview

The [National Clearinghouse for Worker Safety and Health Training](#) (Clearinghouse), operated by MDB, Inc., and directed by Deborah Weinstock, provides technical support to NIEHS/DOE Program award recipients who conduct hazardous waste worker training for the DOE weapons complex. The Clearinghouse regularly features articles about chemical and radiological issues around the complex in its electronic newsletter, the [Weekly E-Newsbrief](#), which is distributed to more than 1,000 subscribers. Newsbrief articles cover critical issues such as cleanup completion at sites, include links to recently released DOE reports, and feature DOE health and safety meetings in the Calendar of Events section.

The Clearinghouse website houses numerous reports on environmental, health, and safety topics specifically related to DOE. The website contains many resources, including a database of [health and safety training curricula](#) developed for DOE workers by NIEHS/DOE program award recipients.

Background of the NIEHS/DOE Program Partnership

NIEHS WTP Authorization

Section 126(g) of the Superfund Amendments and Reauthorization Act of 1986 authorized an assistance program for training and education of workers engaged in activities related to hazardous waste generation, removal, containment, or emergency response, and hazardous materials transportation and emergency response. Congress assigned responsibility for administering this program to NIEHS.

Defense Authorization

Section 3131(a)(1)(A)-(B) of the National Defense Authorization Act for fiscal years 1992 and 1993 (42 USC 7274(d)) authorized the Secretary of Energy to award grants to provide training and education to persons who are or may be engaged in hazardous substance response or emergency at DOE nuclear weapons facilities, and to develop curricula for such training and education. The secretary was further authorized in section 3131(a)(2)(A)-(B) to award grants to nonprofit organizations demonstrating capabilities in implementing and conducting effective training and education programs relating to the general health and safety of workers and identifying — and involving in training — groups of workers whose duties include hazardous substance response or emergency response.

Annual Funding

Each year, Congress directs the transfer of \$10 million from DOE to the NIEHS Hazardous Waste Worker Training Program in the Energy and Water Development and Related Agencies Appropriations bills.

NIEHS/DOE Agreement

To implement the NIEHS/DOE Program, DOE entered into an Interagency Agreement with NIEHS WTP to award and administer the grants and to adapt its existing program to meet the needs of the DOE nuclear weapons complex. A Memorandum of Understanding supports ongoing communication and requirements between the federal partners.

OSHA Regulations and DOE Directives

To provide protection for workers' health and safety, all workers at DOE sites engaged or potentially engaged in environmental restoration activities, including hazardous substance response or emergency response, are required by the Comprehensive Environmental Response, Compensation, and Liability Act and DOE directives 10 CFR 850 and 851 to meet the requirements of OSHA regulation 20 CFR 1910.120 and the Environmental Protection Agency HAZWOPER training requirements (40 CFR 300.150).

Additionally, WTP and award recipients support the implementation of DOE's 10 C.F.R. 851: Worker Safety and Health Program and Integrated Safety Management as described in DOE P 450.4, Safety Management System Policy. These policies provide a framework for health and safety training for award recipients and are included in curricula where appropriate. Lastly, NIEHS/DOE award recipients CPWR and IAFF are active supporters of training courses developed to support the Safety Culture Improvement Panel annual work plan. Occupational Radiation Protection Final Rule, 10 CFR 835, training support is available to DOE contractors.

For more information on the NIEHS/DOE Program, visit https://www.niehs.nih.gov/careers/hazmat/training_program_areas/doe.

Data Tables

Table 1: Total Training by NIEHS Award Recipients, August 1, 2024 - July 31, 2025

Award Recipient	Courses Completed	Workers Trained	Contact Hours
CPWR - The Center for Construction Research and Training	631	8,864	132,235
International Association of Fire Fighters	41	802	50,520
International Brotherhood of Teamsters	223	3,952	37,993
International Chemical Workers Union	134	2,290	22,533
Laborers' International Union of North America	454	5,085	80,869
National Partnership for Environmental Technology Education	216	2,601	20,516
United Steelworkers Tony Mazzocchi Center	330	5,671	38,016
Total	2,029	29,265	382,682

Table 2: Courses Provided Through the DOE Program by NIEHS Award Recipients, August 1, 2024 - July 31, 2025

Course Category	Course Name	Courses Completed	Workers Trained	Contact Hours
Asbestos Abatement	Asbestos Abatement Supervisor	12	157	6,280
	Asbestos Abatement Supervisor Refresher	73	796	6,368
	Asbestos Abatement Worker Basic	31	368	14,256
	Asbestos Abatement Worker Refresher	84	1,060	8,480
	Asbestos Awareness	3	23	156
	Asbestos Control Certification	9	70	1,120
	Asbestos Inspector Refresher	6	34	136
	Asbestos Oper. & Maintenance Refresher	10	116	928
	Total	228	2,624	37,724
Biological/Remediation	Microbial Remediation: Mold and Mildew	1	8	64
	Total	1	8	64
Confined Space	Confined Space	69	880	18,121
	Total	69	880	18,121
Construction Safety	Silica Hazards	12	230	1,840
	Total	12	230	1,840
Disaster Recovery	Resiliency	1	6	30
	Total	1	6	30
Electrical Safety	Electrical Safety	9	121	1,280
	Total	9	121	1,280
Emergency Response	Emergency Response Basic Operations	6	82	712
	Emergency Response for Specific Hazards	1	4	96
	Emergency Response/HAZMAT Technician	23	461	36,880
	Total	30	547	37,688

Course Category	Course Name	Courses Completed	Workers Trained	Contact Hours
Equipment Safety	Crane Operators	25	306	4,688
	Cutting & Burning	4	32	512
	Fall Protection	23	273	1,514
	Forklift Operator Training Program	6	74	1,184
	Rigging and Signaling	24	223	4,856
	Scaffold	20	235	4,044
	Scissor Lift/Aerial Lift	5	68	544
	Total	107	1,211	17,342
Hazard Communication	Hazard Communication	30	326	1,436
	Total	30	326	1,436
HAZMAT Transport	HAZMAT Transportation Awareness	11	183	1,076
	HAZMAT Transporter/Basic	8	278	2,404
	Load Securement	34	345	2,360
	Total	53	806	5,840
Lead Abatement	Lead Abatement Supervisor	16	170	5,440
	Lead Abatement Supervisor Refresher	17	249	1,992
	Lead Awareness	8	105	840
	Total	41	524	8,272
OSHA Outreach	General Construction Safety	179	2,207	36,705
	General Construction Train-the-Trainer	31	300	7,336
	General Industry Safety	79	1,396	10,044
	General Industry Train-the-Trainer	1	4	96
	Total	290	3,907	54,181
Other	Environmental Preparation	1	12	24
	Ergonomics (DOE)	6	178	356
	Heat Illness Prevention	2	62	124
	Industrial Hygiene Technician Training	8	95	190
	Training Methods/Trainer Development	25	380	4,008
	Total	42	727	4,702

Course Category	Course Name	Courses Completed	Workers Trained	Contact Hours
Personal Protective Equipment	Respiratory Protection	10	126	252
	Total	10	126	252
Radiological	Rad. Protection Worker/Basic	1	10	100
	Radiation Worker II Training	18	163	4,376
	Radiation Worker Refresher	9	57	456
	Radiological Control Technician Training	47	772	5,419
	Total	75	1,002	10,351
RCRA/Industrial	Fire Watch	20	257	1,128
	Hazardous Waste Characterization	32	467	2,641
	Pollution Prevention	8	84	336
	Process Safety Mgmt.	4	35	70
	RCRA TSD Site Refresher	26	389	1,556
	RCRA TSD Site Worker	11	135	2,880
	Total	101	1,367	8,611
Refresher - Site Worker/ Superfund Cleanup	Site Worker Refresher	650	11,801	94,680
	Total	650	11,801	94,680
Safety Culture	Safety Culture/Safety Leadership	8	185	898
	Total	8	185	898
Site Worker/Superfund Cleanup	Basic Superfund Site Worker	143	1,833	69,112
	Hazardous Waste Operations	1	13	520
	Hazardous Waste Site Inspector/Awareness	1	6	24
	Hazardous Waste Operations Awareness	12	156	1,248
	Site Supervisor Basic	4	23	184
	Site Worker Train-the-Trainer	4	41	1,621
	Superfund Bridge Training	14	97	2,256
	Total	179	2,169	74,965
Triage/First Aid	Adult CPR	3	30	147
	Basic First Aid	90	668	4,258
	Total	93	698	4,405
Total		2,029	29,265	382,682

Table 3: Total NIEHS Training by DOE Site, August 1, 2024 – July 31, 2025

DOE Site	Courses Completed	Course Percentage	Workers Trained	Worker Percentage	Contact Hours	Contact Hours Percentage
Oak Ridge Field Office	404	20%	5,421	19%	76,982	20%
Hanford Site	256	13%	4,084	14%	41,500	11%
Los Alamos National Laboratory	260	13%	3,874	13%	32,514	8%
Multiple DOE sites	137	7%	2,051	7%	16,455	4%
Portsmouth Gaseous Diffusion Plant	114	6%	2,028	7%	19,126	5%
Paducah Gaseous Diffusion Plant	127	6%	1,761	6%	22,060	6%
Idaho National Engineering Laboratory	120	6%	1,436	5%	16,948	4%
Nevada Test Site	97	5%	1,343	5%	21,286	6%
Argonne East	82	4%	1,198	4%	20,430	5%
Pantex Plant	55	3%	1,009	3%	12,008	3%
Savannah River Site	74	4%	765	3%	10,634	3%
Princeton Plasma Physics Laboratory	59	3%	727	2%	18,090	5%
Santa Susana Field Laboratory	39	2%	698	2%	17,024	4%
Brookhaven National Laboratory	36	2%	542	2%	10,906	3%
Weldon Springs	34	2%	512	2%	9,632	3%
Non-DOE Sites	40	2%	508	2%	5,203	1%
Lawrence Livermore National Laboratory	17	1%	241	1%	6,192	2%
West Valley Demonstration Project	12	1%	209	1%	2,394	1%
Nuclear Fuel Services	10	0%	206	1%	1,912	0%
Formerly Utilized Sites Remedial Action Program	22	1%	172	1%	3,024	1%
Kansas City Plant	9	0%	101	0%	2,122	1%
Bettis Plant	5	0%	71	0%	3,616	1%
Lawrence Berkeley	5	0%	67	0%	1,416	0%
St. Louis Airport Site	3	0%	52	0%	944	0%
Waste Isolation Plant	2	0%	33	0%	264	0%
Ames Laboratory	2	0%	32	0%	1,280	0%
Barker Brothers	2	0%	32	0%	2,560	1%
Thomas Jefferson National Accelerator Facility	2	0%	32	0%	2,560	1%
Mound Plant	2	0%	30	0%	2,400	1%
Elk River Reactor	1	0%	17	0%	680	0%
Department of Energy - Headquarters	1	0%	13	0%	520	0%
Total	2,029	1	29,265	1	382,682	1

Table 4: 10-Year Training Summary: NIEHS/DOE Nuclear Worker Training Program, 2015-2025

Training Year	Number of Award Recipients**	Courses Completed	Workers Trained	Contact Hours
2015	8	1,830	26,396	323,316
2016	8	1,927	28,162	368,680
2017	8	2,066	32,202	389,786
2018	7	1,679	27,769	343,923
2019	7	1,795	29,714	368,276
2020***	7	1,387	19,572	214,129
2021****	8	1,901	23,095	280,377
2022	7	1,890	26,163	327,619
2023	7	2,378	35,095	421,842
2024	7	2,011	29,411	347,902
2025	7	2,029	29,265	382,682
Total		20,893	306,844	3,768,532

** Number of award recipients does not include those in a no-cost extension status.

*** 2020 numbers were impacted by COVID-19 and restrictions on training delivery.

**** 2021 had an eleven-month grant year due to a shift in project end date by NIEHS.

Table 5: Summary of NIEHS Training at DOE Sites, 1994-2025

Training Year	Courses Completed	Workers Trained	Contact Hours
1994	486	7,107	184,604
1995	1,091	13,566	249,704
1996	1,199	18,642	290,938
1997	1,277	18,394	244,212
1998	983	15,048	217,666
1999	922	14,049	202,997
2000	1,152	15,860	218,087
2001	1,379	18,833	245,436
2002	1,954	25,399	302,723
2003	1,959	23,187	303,633
2004	2,367	29,240	374,957
2005	1,961	25,442	329,840
2006	2,044	26,365	325,533
2007	2,283	34,074	400,491
2008	2,225	33,702	414,746
2009	2,265	36,266	530,271
2010	2,188	35,329	523,287
2011	1,987	31,238	405,556
2012	1,963	29,842	365,083
2013	1,790	27,737	309,977
2014	1,900	28,334	311,412
2015	1,830	26,396	323,316
2016	1,927	28,162	368,680
2017	2,066	32,202	389,786
2018	1,679	27,769	343,923
2019	1,795	29,714	368,276
2020	1,387	19,572	214,129
2021	1,901	23,095	280,377
2022	1,890	26,163	327,619
2023	2,378	35,095	421,842
2025	2,029	29,265	382,682
Total	54,257	785,087	10,171,783

Table 6: Projected Versus Actual Training, August 1, 2024 – July 31, 2025

Award Recipient	Projected	Actual # of Courses to Date	Difference	Projected	Actual # of Workers	Difference	Projected	Actual Contact Hours	Difference
CPWR - The Center for Construction Research and Training	467	631	164	7,425	8,864	1,439	109,632	132,235	22,603
International Association of Fire Fighters	10	41	31	250	802	552	14,000	50,520	36,520
International Brotherhood of Teamsters	201	223	22	3,090	3,952	862	37,708	37,993	285
International Chemical Workers Union	106	134	28	1,453	2,290	837	18,014	22,533	4,519
Laborers International Union of North America	236	454	218	2,360	5,085	2,725	37,800	80,869	43,069
National Partnership for Environmental Technology Education	350	216	-134	3,500	2,601	-899	31,415	20,516	-10,899
United Steelworkers Tony Mazzocchi Center	279	330	51	4,456	5,671	1,215	50,488	38,016	-12,472
Total	1,649	2,029	380	22,534	29,265	6,731	299,057	382,682	83,625

Table 7: Projected Training Courses for Next Budget Period, August 1, 2025 – July 31, 2026

Course Name	Number of Course Projected	Projected Contact Hours
Asbestos Abatement Supervisor	4	2,400
Asbestos Abatement Supervisor Refresher	15	1,736
Asbestos Abatement Worker Basic	16	4,512
Asbestos Abatement Worker Refresher	27	3,312
Asbestos Awareness	1	160
Asbestos Inspector Refresher	1	96
Asbestos Management Planner	1	120
Asbestos Oper. & Maintenance Refresher	8	1,152
Basic First Aid	57	1,800
Basic Superfund Site Worker	94	48,224
Confined Space	18	5,360
Electrical Safety	12	1,728
Emergency Response Basic Operations	3	480
Emergency Response for Specific Hazards	1	2,000
Emergency Response/HAZMAT Technician	11	22,000
Fall Protection	9	1,456
Fire Watch	39	1,248
General Construction Safety	88	27,278
General Construction Train-the-Trainer	11	4,172
General Industry Safety	29	10,350
Hazardous Waste Operations	2	1,000
Hazard Communication	2	96
Hazardous Waste Characterization	43	2,752
HAZMAT Transportation Awareness	5	1,648

Course Name	Number of Course Projected	Projected Contact Hours
HAZMAT Transporter/Basic	10	4,096
Lead Abatement Supervisor	2	640
Lead Abatement Supervisor Refresher	4	480
Lead Awareness	5	768
Process Safety Mgmt.	4	640
Rad. Protection Worker/Basic	4	1,016
Radiological Control Technician Training	30	6,000
RCRA TSD Site Refresher	20	2,400
RCRA TSD Site Worker	37	3,308
Respiratory Protection	3	240
Rigging and Signaling	14	1,248
Safety Culture/Safety Leadership	5	600
Scaffold	7	696
Scissor Lift/Aerial Lift	2	384
Silica Hazards	3	144
Site Supervisor Basic	7	624
Site Worker Refresher	509	58,944
Site Worker Train-the-Trainer	3	1,600
Training Methods/Trainer Development	29	7,040
Trench Protection Principles	14	504
Total	1,209	236,452



National Institute of
Environmental Health Sciences
Worker Training Program

This publication was made possible by contract number 75N96023D00004
from the National Institute of Environmental Health Sciences, NIH.
June 2026