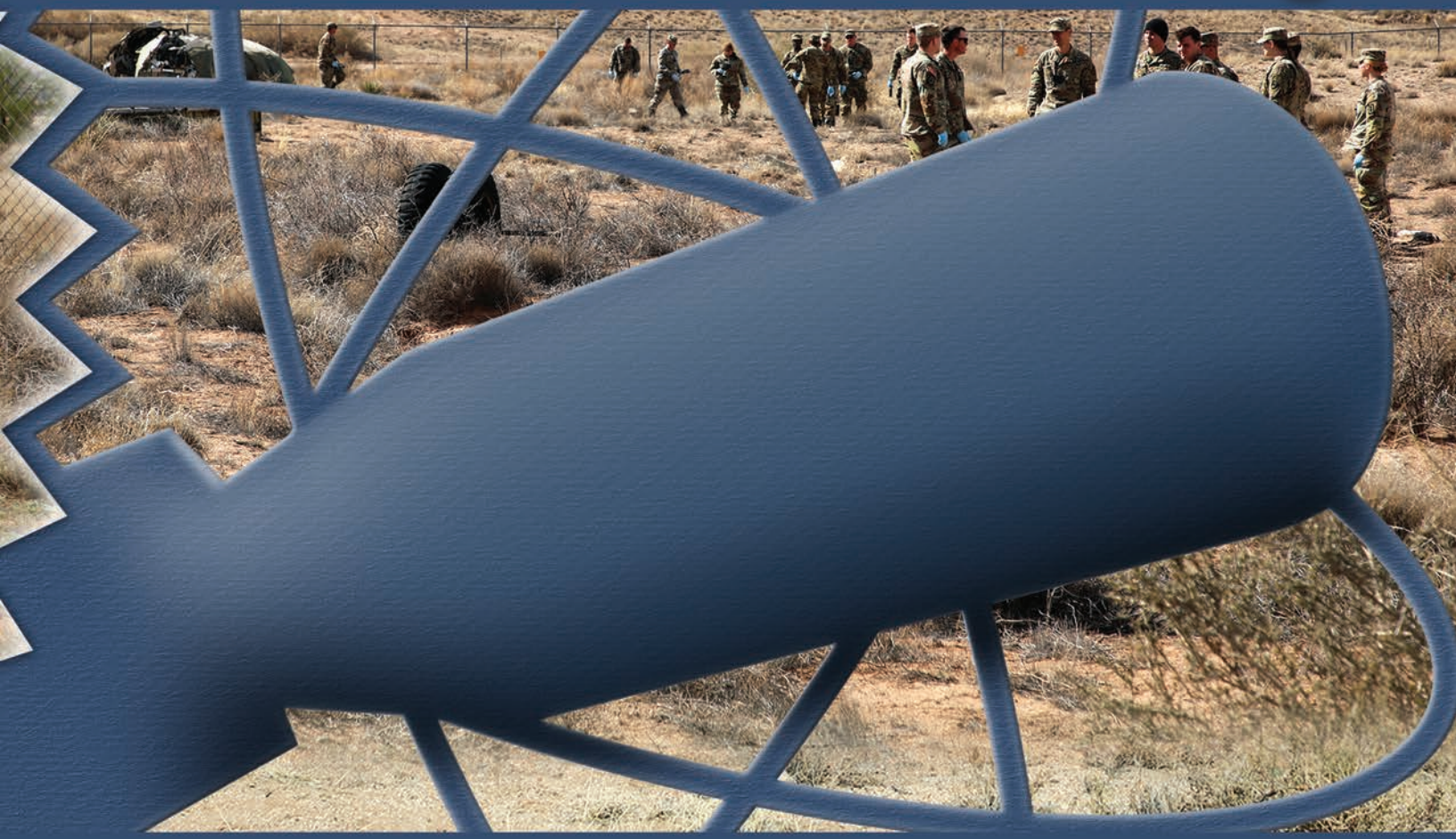
DEFENSE THREAT REDUCTION AGENCY

FY 2024 DEFENSE NUCLEAR WEAPONS SCHOOL
Radiological & Nuclear Training



A Department of the
Defense Threat Reduction Agency

Release: 23-5813

https://www.dtra.mil

https://dnws.dtra.mil

DTRA Mission

DTRA provides cross-cutting solutions to enable the Department of Defense (DOD), the United States Government, and international partners to Deter strategic attack against the United States and its allies; Prevent, reduce, and counter Weapons of Mass Destruction (WMD) and emerging threats; and Prevail against WMD-armed adversaries in crisis and conflict.

DNWS Overview

The Defense Nuclear Weapons School (DNWS) is located on Kirtland Air Force Base, in Albuquerque, New Mexico. In existence since 1947, this Defense Threat Reduction Agency (DTRA) school is a unique entity that provides training to the Department of Defense (DOD), and other federal, state, and local agencies on: Nuclear and Radiological Weapons; Nuclear Accident/Incident Command, Control and Response; Explosive Ordnance Disposal (EOD) Threat Awareness/ Assessment; Weapons of Mass Destruction (WMD); and Chemical, Biological, Radiological and Nuclear (CBRN) modeling.

Mission:

The Defense Nuclear Weapons School provides nuclear weapons core competencies and radiological/nuclear WMD training and education to DOD, interagency organizations, and international partners, to ensure a strong nuclear deterrence, prepare an effective accident/incident response force, and enable countering of WMD-chemical, biological, Radiological, and Nuclear (CBRN) threats.

Training Objectives:

The school's training objectives are to create, develop, and implement professional training through both traditional methods and innovative training technologies. DNWS training helps to ensure that our nation maintains a safe, reliable, and credible nuclear deterrent, nuclear accident and incident response, radiological force protection and CWMD hazard recognition for the warfighter and responder.

Courses:

The DNWS delivers instructor-led courses in-residence and via Mobile Training Teams (MTTs), and offers several distance learning courses online. While most courses are taught in-residence at the DNWS, an expanding array of courses are offered via distance learning or MTT. Additionally, the DNWS provides experts who teach modules within courses taught by other military and federal entities such as the Department of State and the Federal Bureau of Investigation.

Commandant's FY 2024 Comments:

Nuclear deterrence is the foundation of U.S. national security and has been fundamental to the safety and security of the U.S., U.S. Allies and partners, and to a world free from World War since 1945. DTRA and DNWS support U.S. national security efforts by providing vital radiological and nuclear WMD training to DOD, numerous inter-agency organizations, and to international partners to enable an effective accident/incident response force, the ability to counter WMD-CBRN threats, and to ensure civilian and military leaders are cognizant of nuclear weapons effects and the application of nuclear weapons as part of national policy.

As U.S. strategic competitors modernize, develop, test, and field their own nuclear deterrents, it is critical that the U.S. build a resilient joint force, Allied, and partner capability able to meet the demands of a complex strategic competition environment. DTRA and DNWS stand ready to provide professional state-of-the-art training through in-residence, MTTs, and by distance learning opportunities to help ensure our nation maintains a nuclear deterrent capable of deterring strategic attack against the U.S., Allies, and partners.

Scott J. Smith, LTC(P), U.S. Army
Commandant, Defense Nuclear Weapons School

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Front office

Commandant, DNWS
LTC(P) Smith
Chief, DNWS Department

Supv Ops Officer
Operations Division
Mr. Whitecotton

Dean of Academics
Ms. Hicks

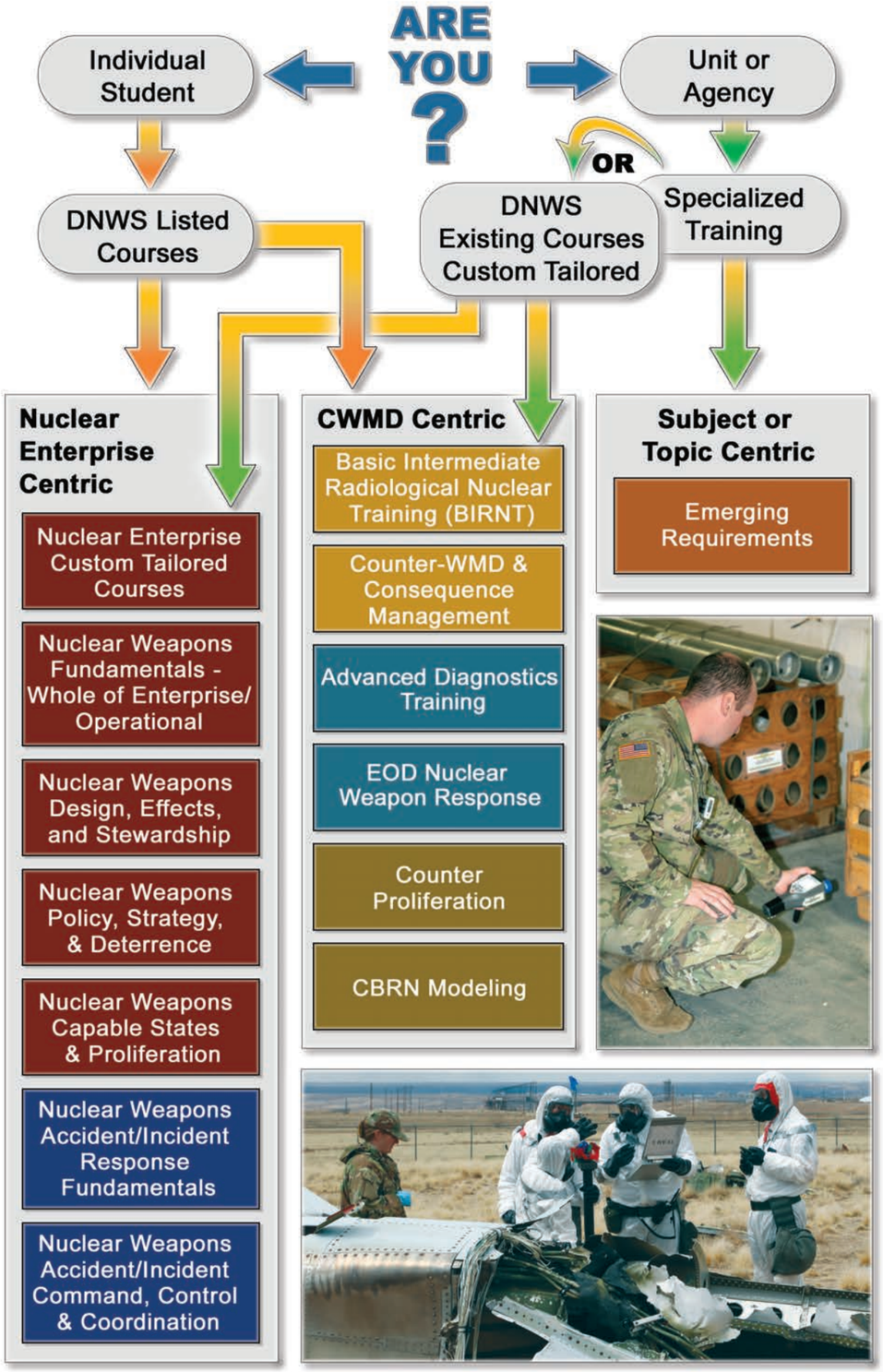
Curriculum
Faculty Development
Emerging Requirements
Mission Support
Training Area Management
Information Systems
Registrar

Nuclear Enterprise Division
Mr. James Ragland (Acting)

CWMD Division
LTC Daino
Mr. Thompson

Nuclear Weapons Branch
Nuclear Response Branch

Health Physics Branch
EOD Branch



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Defense Threat Reduction Agency
Defense Nuclear Weapons School

Directory

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LTC(P) Scott Smith
Phone: 505-846-6267
Email: *scott.j.smith15.mil@mail.mil*

Operations & Education Division
Mr. Randy Whitecotton,
Supervisory Operations Officer
Phone: 505-846-0662
Email: *randy.c.whitecotton.civ@mail.mil*

DNWS Registrar Office
Email: *dtra.kirtland.ne.mbx.dnws-registrar@mail.mil*
Phone: 505-846-5666 / **DSN:** 246-5666
Fax: 505-846-9168 / **DSN:** 246-9168
JPAS SMO Code: DTRA-ABQ-1
ATTN: DNWS Registrar, TSgt Lawanda Basile

Website support
https://dnws.dtra.mil
(must connect via a .mil or .gov domain)
Email: *dtra.kirtland.ne.list.dtra-dnws-it-support@mail.mil*

Albuquerque Billeting Numbers
Kirtland AFB, Albuquerque, NM
AF INN: Phone 505-846-9653
DSN: 246-9653
https://af.DoDlodging.net/propertys/Kirtland-AFB

FT Belvoir Billeting Numbers
Phone: 703-704-8600 or 1-800-295-9750

Computer Modeling
DTRA CBRNE Decision Support Analysis Capabilities Training Support
Email:
dtra.belvoir.J9.mbx.reachback-training@mail.mil
Phone: 571-303-2171 **Fax:** 571-303-2182

DTRA CBRNE M&S Training Center:
6361 Walker Lane, Suite C120
Alexandria, VA 22310
POC: COR Reachback Training CW4
Leonardo Cargill and CBRNE Training

Kirtland AFB Apps:
Android/Google Users: https://play.google.com/store/apps/details?id=com.app.p4366FB&hl=en_US&gl=US
Apple Users: https://apps.apple.com/us/app/kirtland-air-force-base/id1231362969

ADMINISTRATIVE ITEMS

- **How to Register for Classes**
- **Security Requirements for DOD Personnel**
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How to Register for Classes

DNWS Registration and Course Administration Information

General information about DNWS is available on the DNWS web site, also known as DNWS Learning Content Management System (LCMS), https://dnws.dtra.mil. The site is available to DOD and other Federal and state agencies, accessible only from .mil or .gov domains.

Course Registration Process

Please read all sections of the course registration process, paying particular attention to security requirements, prerequisites, quota limitations, and requirements for non DOD personnel. DNWS has simplified and automated the course registration process. New students will complete a two-step process to register for DNWS courses.

Step 1 (New/Prospective Students)

Prospective students should click the link provided (https://dnws.dtra.mil), select the "Register (New Users)" tab, complete the "Register for Access to the Portal" form, and click "Submit Credentials for Access." All fields are required to provide contact information for the students. Upon completion, an email will be sent to the provided email address with login and password.

Step 2 (Registered and Returning Students)

Students who have received a DNWS LCMS User ID and password may register for courses. Click on the link provided (https://dnws.dtra.mil), enter User ID and password in the spaces provided, and click "Login." A "Recover Login ID/ Password" button is located at the bottom of this window if password is forgotten. For all other login issues please call or email DNWS Registrar office. DOD students can tie their CAC/PIV certificates to their account for ease of access. This is recommended as it makes accessing the DNWS internal network computers much easier. Once logged in, students may register for courses or review existing course registrations, review transcripts, update profile information, browse the DNWS catalog and certification programs, and enroll in/complete DNWS distance learning courses.

Enrollment Confirmation

The DNWS LCMS will automatically generate and send enrollment confirmation to prospective students by email upon completion of the DNWS course registration process and verification of security clearance information (as appropriate). To ensure receipt of confirmation and other course information, students must provide an unclassified government e-mail address when they register for access to the LCMS.

The DNWS (https://dnws.dtra.mil), will apprise students of changes in class dates, times, and/or location. If a student has not received enrollment confirmation by one week prior to the class start date, please contact DNWS Registrar's Office main line, (505) 846-5666 or DSN 246-5666, Monday–Friday, 0800–1530, Mountain Daylight Savings Time (MDT) or contact them by email, *dtra.kirtland.ne.mbx.dnws-registrar@mail.mil.*

Registration for Non-DOD Students

Inbound students whose security clearances cannot be validated in the Defense Information System for Security (DISS) must provide validation of their security clearance prior to being registered for classified courses. Clearances can be passed to DTRA via a Visit Authorization Letter (VAL) that includes the students Name, Grade/Rank, Social Security Number, Birth Date, Birth City, Birth State, Birth Country, Citizenship, Visit Dates, Clearance Level, Date Clearance Granted, Clearance Granted By (issuing agency), Type Investigation, Date Investigation Completed, Investigation Conducted By (Investigating Agency), Meeting POC (Use DNWS Registrar or Course Manager), Security Manager Name & Phone #. Once complete the letter should be sent via fax to DTRA Access/Visitor Control at 505-846-8983.

Registration for DOE/NNSA Students

DOE/NNSA personnel may work with their badging office and elect to complete a DOE form 5631.20 in lieu of the VAL. For all of our classified courses the minimum DOE security clearance requirement is a "Q". The completed DOE form 5631.20. Additional information to complete DOE form 5631.20 can be located in the security requirements section on pg. 10.

Organization/Service Branch Quotas

The following DNWS courses are subject to organization/service branch quotas: ADT-1, ADT-2, JNEODC & NETOPS. Classes may show open seats on the website; however, existing quota agreements may preclude general registration. Any student who exceeds the existing service quota will be placed on a wait-list until 30 days prior to the course start date. Once the 30 day mark is reached, wait-listed students will be registered in the order in which they were wait-listed.

USAF & USMC personnel attempting to register for these courses be advised: The DNWS works with 2d Air Force and Training & Education Command (TECOM) to fill seats in these courses. Inbound students from those existing training pipelines are granted priority for registrations. Any USAF or USMC student who is set to be unit funded, will be wait-listed and will only be registered if seats are not filled by throughput from 2d AF or TECOM or if seats promised to the other sources remain available past the 30 day mark.

Classified Course Security Clearance Requirements

All prospective students should reference the security requirements of their desired training listed on the course information page accessible from the "Training Courses" page. Before attempting to register, students should ensure they meet the minimum requirements. Any student who does not meet the minimum requirements will be withdrawn and notified of disenrollment. The DNWS will not read inbound students into specific areas such as "Restricted Data" or "Critical Nuclear Weapon Design Information" (some exceptions apply for courses such as TNOC).

Security Check-In/Badging

All personnel entering the DNWS are required to show a valid, photo ID at the security desk and receive appropriate badging for the duration of their stay. Students who register for in-residence classes at DNWS must have a VAR on file. DOD students will have to submit a Visit Access Request (VAR) via the Defense Information Security System (DISS). DOE/NNSA students must work with their badge office to complete a clearance transfer request within their organization's design. DTRA ABQ security can provide guidance for students from other agencies such as FEMA, DOJ, etc.

All students who register for a course will remain in a pending status until a VAR is submitted, processed; and on file with DTRA. Once this action takes place successfully the student will be registered for the course. If the student is unable to complete the VAR action, their request for training may not be fulfilled by the DNWS and DTRA.

Personal Electronic Devices (PEDs)

Telephone lines with DSN access, are available for students to make and receive telephone calls while in the facility. Internet access at the DNWS is available for students on a limited basis. Security procedures prohibit bringing PEDs (PEDs include but are not limited to cellular telephones, smart devices, pagers, personal digital assistants, cameras, thumb drives, laptop computers, fitbits or like devices) into the school.

Specific instructions for other DTRA or hosted courses will be provided in the course invitation message. Please email the registrar if the website is not available for more than 7 days.

JNEODC/WREC Special Requirements

Personnel registering for the Joint Nuclear Explosive Ordnance Disposal Course (JNEODC) or Weapon Recovery EOD Course (WREC) are required to submit an additional visit request to Sandia National Labs through DISS using the SMO Code 14213 and fill out the Sandia Badge Request Form located under the Student Manual tab. Completed forms can be faxed to 505-844-3377 or emailed to *ml_tr@sandia.gov*.

Security Requirements for DOD Personnel

Instructions for Visit Authorization Request (VAR) to DTRA for DOD personnel

All DOD personnel visiting the Defense Nuclear Weapons School must have a Visit Authorization Request (VAR) sent in the Defense Information Security System (DISS) by your organization's security manager or manager of access to classified information.

If you are requesting registration for a course delivered via Mobile Training Team (MTT), a VAR is not required for registration. MTT hosts may have additional requirements (security/otherwise) for students attending at their locations. The DNWS is not responsible for security/access to information at these host venues.

FOR STUDENTS ATTENDING IN-RESIDENT COURSE(S):

Please verify you meet the security clearance requirements for the course(s) you are attempting to enroll in by referencing the course(s) security requirements in the course catalog prior to submitting a VAR.

Once you have confirmed you meet the access requirements, please submit a VAR via DISS using the information listed below:

DNWS SMO: DTRA-ABQ-1
POC: DNWS Registrar // 505-846-5666
Security POC: Mr. Kendall Bell // 505-846-0116
Visit Dates: Enter dates for the duration of the course(s)
Visit Type: Enter course(s) name

ALL REGISTRATION ACTIONS ABOVE MUST BE COMPLETED IN ORDER TO BE APPROVED REGISTRATION FOR THE COURSE(S). REGARDLESS OF YOUR SOURCE OF FUNDING, YOU WILL REMAIN IN PENDING STATUS UNTIL YOUR VAR IS RECEIVED AND PROCESSED.

FOR VISITORS OF DNWS (NON-STUDENTS):

Please submit a VAR via DISS using the information listed below:

DNWS SMO: DTRA-ABQ-1
POC: DTRA Military or Civilian name & number you are visiting (Please do not list Contractors.)
Security POC: Mr. Kendall Bell // 505-846-0116
Visit Date(s): Enter date(s) of the visit
Visit Type: Enter meeting/event name

For more information on sending clearances and visitor control, please contact the DTRA ABQ Security Office at:
Phone: 505-846-0116
Email: *dtra.kirtland.oi.list.oi-msca-abq-visitor-control@mail.mil*

Security Requirements for DOE/NNSA Personnel

Instructions for sending Visit Authorization Request (VAR) to DTRA for DOE/NNSA personnel

All DOE/NNSA personnel visiting the Defense Nuclear Weapons School must submit a VAR via DOE Form 5631.20. Forms must be signed/processed by DOE/NNSA security/badge office personnel. Completed forms may be sent via fax to 505-846-8983 or via email to *dtra.kirtland.oi.list.oi-msca-abq-visitor-control@mail.mil*

If you are requesting registration for a course delivered via Mobile Training Team (MTT), a VAR is not required for registration. MTT hosts may have additional requirements (security/otherwise) for students attending at their locations. The DNWS is not responsible for security/access to information at these host venues.

FOR STUDENTS ATTENDING IN-RESIDENT COURSE(S):

Please verify you meet the security clearance requirements for the course(s) you are attempting to enroll in by referencing the course(s) security requirements in the course catalog prior to submitting a VAR.

Once you have confirmed you meet the access requirements, please send the VAR to the DTRA ABQ Security Office via fax to 505-846-8983 or email to dtra.kirtland.oi.list.oi-msca-abq-visitorcontrol@mail.mil with the encrypted VAR in one email and the password to the encrypted VAR in a separate email (total of two emails).

POC: DNWS Registrar // 505-846-5666
Security POC: Mr. Kendall Bell // 505-846-0116 // Fax: 505-846-8983
Visit Dates: Enter dates for the duration of the course(s)
Visit Type: Enter course(s) name

ALL REGISTRATION ACTIONS ABOVE MUST BE COMPLETED IN ORDER TO BE APPROVED REGISTRATION FOR THE COURSE(S). YOU WILL REMAIN IN PENDING STATUS UNTIL YOUR VAR IS RECEIVED AND PROCESSED.

FOR VISITORS OF DNWS (NON-STUDENTS):

Please send the VAR to the DTRA ABQ Security Office via fax to 505-846-8983 or email to *dtra.kirtland.oi.list.oi-msca-abq-visitor-control@mail.mil* with the encrypted VAR in one email and the password to the encrypted VAR in a separate email (total of two emails).

POC: DTRA Military or Civilian name & number you are visiting (Please do not list Contractors.)
Security POC: Mr. Kendall Bell // 505-846-0116 // Fax: 505-846-8983
Visit Date(s): Enter date(s) of the visit
Visit Type: Enter meeting/event name

For more information on sending clearances and visitor control, please contact the DTRA ABQ Security Office at:
Phone: 505-846-0116
Email: *dtra.kirtland.oi.list.oi-msca-abq-visitor-control@mail.mil*

NUCLEAR WEAPONS ORIENTATION, AND POLICY

- **Joint DOD-DOE Nuclear Surety Executive Course (JNSEC)**
- **Nuclear Policy Course (NUCPOL)**
- **Nuclear Weapons Orientation Course (NWOC)**

The Nuclear Weapons Branch (NWB) teaches courses focused on nuclear weapon topics such as nuclear weapon design, nuclear weapon effects, and nuclear weapon policies, both foreign and domestic. Nuclear deterrence is a common theme in the branch curriculum. The Nuclear Weapons Branch's mission is to increase the nuclear literacy of the DOD Warfighter, DOD support, interagency organizations, and additional mission partners. The NWB uses various education and training techniques, including the nation's most complete collection of nuclear weapons and nuclear weapons artifacts in the Nuclear Weapons Instructional Museum (NWIM).

Joint DOD-DOE Nuclear Surety Executive Course (JNSEC)

Course ID/Number: DNWS NW 201 & 201M, USAF JBOZD32E1DOODA, USN S-140-0003
Course Prerequisites: N/A
Classification: SECRET **Security Requirements:** Restricted Data-CNWDI
Uniform: As directed by the individual service for military & business casual for civilians.
Format: In residence **MTT:** 1- to 1 1/2-day format only, NCR
Course Length: 1-day and 2-day formats available

JNSEC is an executive-level program offering an overview of safety, security, and C3 aspects of the U.S. nuclear weapons program. JNSEC is offered in two formats: a 2-day program conducted in the National Capitol Region (NCR), and a 2-day program conducted at the DNWS. A Nuclear Weapons Instructional Museum (NWIM) tour at the S//RD-CNWDI level is included in the 2-day format.

Nuclear Policy Course (NUCPOL)

Course ID/Number: DNWS NW 401, USN S-140-0005
Course Prerequisites: N/A
Classification: SECRET **Security Requirements:** Restricted Data-CNWDI
Uniform: As directed by the individual service for military & business casual for civilians.
Format: In residence **MTT:** N/A **Course Length:** 5 days

NUCPOL is a 5-day course that provides an overview of U.S. nuclear weapons policy development including issues and challenges facing politicians today. It specifically covers the evolution of U.S. nuclear weapons policy, nuclear deterrence theory, applications of nuclear weapons within the instruments of national policy, factors influencing policy, foreign nation nuclear weapons drivers, and proliferation concerns. A policy-focused tour of the Nuclear Weapons Instructional Museum (NWIM) at the S//RD-CNWDI, level is included.

Nuclear Weapons Orientation Course (NWOC)

Course ID/Number: DNWS NW 110 & NW 110M, USA-ROO1, USAF-JBOZD21A100DA, USMC-FO4EGP1, USN S-140-0001
Course Prerequisites: N/A
Classification: SECRET **Security Requirements:** Restricted Data-CNWDI
Uniform: As directed by the individual service for military & business casual for civilians.
Format: In residence **MTT:** Upon request **Course Length:** 4.5 days

NWOC is a 4.5-day course that provides an overview of the history and development of nuclear weapons, management of the U.S. nuclear stockpile, and the issues and challenges facing the program. NWOC focuses on four functional areas: nuclear weapons fundamentals, nuclear weapons effects, nuclear weapons stockpile, and foreign nuclear weapons capabilities and proliferation. A Nuclear Weapons Instructional Museum (NWIM) tour at the S// RD level is included. *NOTE: Commands requesting MTTs will be required to provide funding. Actual cost of MTTs will vary based on team size, location, time of year etc. If a MTT is desired contact the coordinators to discuss specifics.*

NUCLEAR WEAPONS INCIDENTS, ACCIDENTS AND RESPONSE TRAINING

- **Nuclear Emergency Team Operations (NETOPS)**
- **Nuclear Weapons Incident Response Training, Domestic Basic (NWIRT-DB)**
- **Nuclear Weapons Incident Response Training, Domestic Executive (NWIRT-DE)**
- **Nuclear Weapons Incident Response Training, Overseas Basic (NWIRT-OB)**
- **Nuclear Weapons Incident Response Training, Overseas Executive (NWIRT-OE)**

The Nuclear Response Branch (NRB) educates personnel in radiological response techniques and concepts. These concepts include, but are not limited to, radiation detection equipment theory and use, interpretation of information and data, and the command and control of nuclear or radiological incidents and accidents. The Branch's mission is to increase the nuclear response knowledge of the DOD Warfighter, DOD support, interagency organizations, and additional mission partners.

(Nuclear Enterprise Division (NED) uses various education and training techniques, including the DOD's only "live" radiological training sites).

Nuclear Emergency Team Operations (NETOPS)

Course ID/Number: DNWS NR 101, USMC F045781, USN S-140-0009, USA DNWS-R038, USAF J5OZD32E3G00DA, NM DPS NM210499
Course Prerequisites: N/A

Classification: UNCLASSIFIED **Security Requirements:** None **Uniform:** Service Utility Uniform for military & casual for civilians **Format:** In residence **MTT:** N/A
Course Length: 10 days

NETOPS is a 10-day hands-on course which provides nuclear weapons accident response operations training to joint service responders. The course provides instruction on basic nuclear physics, biological effects of radiation, response processes and capabilities, radiation detection equipment, contamination control stations, surveys, and command and control. The course culminates with three field training exercises during which students don complete sets of anti-contamination clothing, use RADIAC equipment, and perform realistic nuclear emergency team functions at DNWS live radioactive training sites.
Military personnel from all branches and Federal employees occupying EOD, CBRN defense specialties and career fields, or other emergency response force positions are welcome to attend.

Nuclear Weapons Incident Response Training (NWIRT) Series

The NWIRT series is tailored to four specific audiences and operating environments: domestic basic, domestic executive, overseas basic, and overseas executive. The course reviews the following topics: the roles and responsibilities of the DOD during a nuclear weapon incident, as mandated by national policy; response by other Federal departments or agencies, and legal and public affairs issues specific to a U.S. nuclear weapon incident. Each topic and module is presented by a subject matter expert in an academic format. This course is taught by a combined instructor team, including representatives from the FBI, DHS, and DOE. Details and course numbers for each variant are included below.

***Course Dates are not listed due to the uncertain operating environment at the time of publication. Please check the DNWS website (https://dnws.dtra.mil) for the most recent information, or contact the registrar or course manager for specific requests.**

Nuclear Weapons Incident Response Training, Domestic Basic (NWIRT-DB) Course

Course ID/Number: DNWS NR 210-DB, USMC F04B0Z1, USN S-140-0010, USAF J5OZD13B402DA, USA DNWS-R003
Course Prerequisites: N/A

Classification: UNCLASSIFIED (S//FRD level upon specific request)
Security Requirements: None **Uniform:** As directed by the individual service for military & business casual for civilians **Format:** In residence **MTT:** Upon request
Course Length: 3 days

NWIRT-DB is a 3-day course designed for Initial Response Force (IRF) and Response Task Force (RTF) Commanders and staff, addressing issues specific to a domestic nuclear weapon incident.

Nuclear Weapons Incident Response Training, Domestic Executive (NWIRT-DE) Course

Course ID/Number: DNWS NR 210-DE, USMC F04B0Z1, USN S-140-0010, USA DNWS-R003, USAF J5OZD13B402DA
Course Prerequisites: N/A
Classification: UNCLASSIFIED **Security Requirements:** None, **Uniform:** As directed by the individual service for military & business casual for civilians **Format:** In residence **MTT:** Upon request **Course Length:** 1 day

NWIRT-DE is a 1-day executive-level course designed for IRT, IRF, and RTF senior leaders, GCC and MAJCOM staff members, addressing issues specific to a domestic nuclear weapon incident.

Nuclear Weapons Incident Response Training, Overseas Basic (NWIRT-OB) Course

Course ID/Number: DNWS NR 210-OB, USMC F04B0Z1, USN S-140-0010, USA DNWS R003, USAF J5OZD13B402DA
Course Prerequisites: N/A
Classification: SECRET **Security Requirements:** FRD//NATO **Uniform:** As directed by the individual service for military & business casual for civilians **Format:** In residence **MTT:** Upon request **Course Length:** 2 days

NWIRT-OB is a U.S. only, classified 2-day course, designed for IRF and RTF Commanders and staff, addressing issues specific to a nuclear weapon incident overseas. The course is presented via MTT, and specifically in the EUCOM AOR twice per fiscal year.

Nuclear Weapons Incident Response Training, Overseas Executive (NWIRT-OE) Course

Course ID/Number: DNWS NR 210-OE, USMC F04B0Z1, USN S-140-0010, USA DNWS R003, USAF J5OZD13B402DA, **Course Prerequisites:** N/A
Classification: SECRET **Security Requirements:** FRD//NATO//ACCM
Uniform: As directed by the individual service for military & business casual for civilians
MTT: Upon request **Course Length:** 1 day

NWIRT-OE is a U.S. only, classified 1-day course, for IRT, IRF and RTF senior leaders, GCC and MAJCOM staff, addressing issues specific to a nuclear weapon incident overseas. The course is presented via MTT, and specifically in the EUCOM AOR once per fiscal year.

CWMD RADIOLOGICAL AND NUCLEAR TRAINING

- **Basic Intermediate Radiological Nuclear Training (B/IRNT)**
- **Applied Radiological Response Techniques Level 2 (ARRT-2)**

The Health Physics (HP) Branch offers courses with a focus on CWMD radiological and nuclear training at the tactical and operational levels. The HP Branch's mission is to enable individuals and units to operate in a nuclear and radiological environment. This is accomplished through education and training on multi-service tactics, techniques, and procedures (TTPs), conducting hands-on training with current and emerging detector technologies, and sharing best practices.

Basic Intermediate Radiological Nuclear Training (B/IRNT)

Course ID/Number: DNWS CW 100
Course Prerequisites: N/A

Classification: UNCLASSIFIED**, Security Requirements:** None
Uniform: Service Utility or civilian equivalent**.** Portions of the class are administered outdoors. Appropriate inclement weather and sun protective clothing is recommended
Format: In residence **MTT:** Upon Request **Course Length:** 2-5 days

B/IRNT is a tailorable, 2-5 day course offered in-residence or by Mobile Training Team (MTT). This course is designed for units to train on collective tasks relating to radiological and nuclear operations. The core modules are required and conducted over the first two days. The elective modules are optional and, depending on unit selection, are delivered over days 3-5. The minimum class size is 15, maximum class size is 40, and instructor to student ratio goal is 1:6.

Core Modules for the B/IRNT:
- Radiological Fundamentals Review
- Managing Radiological Exposure
- Detector Theory
- Detector Laboratory
- Personal Protective Equipment and
- Radiological Decontamination
- Radiological Materials of Concern
- Nuclear Materials of Concern
- Radiological Hazard Isolation and Exploitation

Elective Modules Available:
Radiological Fundamentals Review
- Detector Specific Overviews
- Radiological Search Techniques
- Gamma Spectroscopy
- Radiological Terrorism
- Nuclear Terrorism
- EMP & HEMP Overview
- Nuclear Battlefield
- Aircraft and Vehicle Decontamination
- SNM Hazards
- Reactor Overview
- Radiological Accidents
- Case Study: Operation TOMODACHI
- Nuclear Fuel Cycle
- Case Study: Tuwaitha Site Exploitation
- Radiological Accidents
- Radiological Hazard Isolation and Exploitation

Additional or advanced modules developed upon request.

Applied Radiological Response Techniques Level 2 (ARRT-2)

Course ID/Number: DNWS HP 480, USN S-140-0013, USA DNWS RO27, NM DPS NM170288
Course Prerequisites: ARRT-1

Classification: UNCLASSIFIED **Security Requirements:** None
Uniform: Service utility uniform with winter support for FTX portion. Portions of the class are administered outdoors. Appropriate inclement weather and sun protective clothing is recommended **Format:** In residence **MTT:** N/A **Course Length:** 5 days

ARRT-2 is 5-day course designed to apply the theories learned in ARRT-1, with the focus on applied radiological problem solving methods. Approximately 20 percent of the course is conducted in detector laboratories while the remaining course time is dedicated to hands-on radiological experiences and the interpretation of survey data. There is minimal powerpoint presentation in this course (only one which is conducted on the first day to review ARRT-1 material). The minimum class size is 7, maximum class size is 15, and the instructor to student ratio goal is 1:3.

Here is an example of a current Emerging Requirements (ER) tailored course:

- CWMD Radiological/Nuclear Operational Seminar (CRNOS) - This seminar provides Operational Staff level awareness of the Radiological and Nuclear Operational environment as it relates to CWMD efforts. The 4-day seminar addresses the following topics and evolutions:
  - An overview of radiological and nuclear materials, categorization and equipment.
  - An overview of RED, RDD and IND threats.
  - Operational considerations concerning the medical effects of ionizing radiation.
  - U.S. CWMD policies and capabilities as they apply to radiological and nuclear threats.
  - CWMD/IND focused classified tour of the Nuclear Weapons Instructional Museum (NWIM).
  - Visits and discussions with Rad/Nuc event response stakeholders.
  - Hands on exposure to radiological sources and the spectrum of DOD radiological detectors.

EXPLOSIVE ORDNANCE DISPOSAL SPECIALTY TRAINING

- **Advanced Diagnostic Training 1 (ADT-1)**
- **Advanced Diagnostic Training 2 (ADT-2)**
- **Joint Nuclear Explosive Ordnance Disposal Course (JNEODC)**
- **Weapon Recovery EOD Course (WREC)**

ADT-1 is for CWMD first responders (not just EOD) who focus on WMD threat awareness, interagency policy, national response architecture, nuclear science, radiation detector theory, and crisis communications. ADT-2 is for EOD Technicians who focus on WMD "Threat Assessment" to apply design concepts to differentiate between material of concern and an Item of Primary Concern, TTPs and communication methods. JNEODC is a course that provides detailed sustainment training for EOD Technicians when responding to Nuclear Weapons Accidents or Incidents (NWAI) as part of the Initial Response Force (IRF).

Advanced Diagnostic Training 1 (ADT-1)

Course ID/Number: DNWS-NR-130, USA DNWS ED 300, USAF-E J5AAD3E851 0A1A, USAF-O J50AD32E3G 0A1A, USMC F04PXV1, S-431-8288, DPS NM220151

Course Prerequisites: N/A

Classification: UNCLASSIFIED **Security Requirements:** CUI, **Uniform:** Service Utility uniform; civilians wear equivalent attire. Students should bring M-53 masks or service equivalent, if able. Portions of the class are administered outdoors. Appropriate inclement weather and sun protective clothing is recommended. **Format:** In residence **MTT:** Upon request **Course Length:** 5 days

ADT-1 is a 5-day course of instruction for CWMD first responders (not exclusively EOD personnel) that focuses on WMD threat awareness, interagency policy, national response architecture, nuclear science, radiation detector theory, and crisis communications. The target audiences are those who currently work as, or may support, designated U.S. Government CWMD authorities. This course meets interagency standards for national crisis response, and is recognized by both the FBI and NNSA NEST Standards and Training Programs (NSTP).

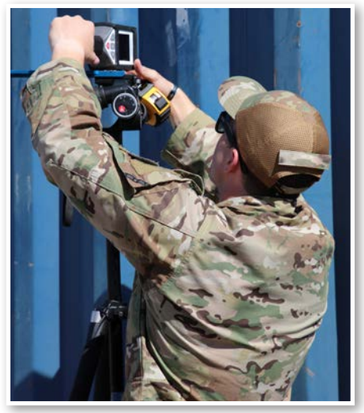
Advanced Diagnostic Training 2 (ADT-2)

Course ID/Number: DNWS ED 301, USA DNWS-NR-201, USAF-E J5AAD3E851 0A2A, USAF-O J50AD32E3G 0A2A, USMC F04PXZ1

Course Prerequisites: Attendance at DNWS ADT-1

Classification: SECRET **Security Requirements:** Restricted Data-CNWDI **Uniform:** Service Utility Uniform. Students should bring M-53 masks or service equivalent, if able. Portions of the class are administered outdoors. Appropriate inclement weather and sun protective clothing is recommended **Format:** In residence **MTT:** Upon request **Course Length:** 5 days

ADT-2 is 5-day course for EOD Technicians who focus on WMD "Threat Assessment" to apply design concepts to differentiate between material of concern and an Item of Primary Concern, TTPs and communication methods. This course meets interagency standards for national crisis response, and is recognized by both the FBI and NNSA NEST Standards and Training Programs (NSTP). ADT-2 is intended for EOD Technicians with 1+ years of experience. Participants are expected to perform as team members and team leaders during rad/nuke scenarios.



Joint Nuclear Explosive Ordnance Disposal Course (JNEODC)

Course ID/Number: DNWS ED 250, USA DNWS-R006, USAF J5AZ03E871 00DA, USN S-140-0011, USMC F04L2Y1
Course Prerequisites: N/A

Classification: SECRET **Security Requirements:** Restricted Data-CNWDI **Uniform:** Service Utility Uniform. Students should bring M-53 masks or service equivalent, if able. Portions of the class are administered outdoors. Appropriate inclement weather and sun protective clothing is recommended **Format:** In residence **MTT:** N/A **Course Length:** 5 days

JNEODC is a 5-day course that provides detailed sustainment training for EOD Technicians when responding to Nuclear Weapons Accidents or Incidents (NWAI) as part of the Initial Response Force (IRF). The program focuses on nuclear weapons hazards, stockpile safety features and safeguards, weapons development, and response protocols. Portions of this course are taught by Subject Matter Experts at the Sandia National Laboratory.

Deadline for registration is 21 days prior to the class convene date. Additional VAR must be submitted through DISS to Sandia SMO along with DNWS Visitor Request. Sandia Badge request must be submitted to Sandia Military Liaison for badge access to Sandia Facilities. See website for instructions and documentation.

Weapon Recovery EOD Course (WREC)

Course ID/Number: DNWS ED 400
Course Pre-requisites: N/A

Classification: SECRET **Security Requirements:** Restricted Data-CNWDI **Uniform:** Service Utility Uniform. Portions of the class are administered outdoors. Appropriate inclement weather and sun protective clothing is recommended. **Format:** In residence **MTT:** N/A **Course Length:** 20 hours (2.5 days)

The Weapon Recovery EOD Course (WREC) is a 2.5-day (20 hour) course intended for Custodial/ Direct Support Unit (DSU) EOD personnel to familiarize responders with weapon recovery planning. This planning introduction includes policy overview, the personnel and equipment deployed by DOD, DOE, and DOJ, and interagency Standard Operating Procedures (SOPs) in response to a Nuclear Weapon Incident (NWI).

EMERGING REQUIREMENTS

- **Battlefield Nuclear Resiliency (NUCRES)**

The Emerging Requirement (ER) is an integral part of the DTRA's mission to support the Nuclear Enterprise & CWMD community by reviewing CWMD/CBRNE emerging requirements, then providing corresponding solutions to support the efforts of our warfighters, the USG, allies, and partners as the nation competes with global competitors. The ER has access, internal and external to DNWS, for instructors and Subject Matter Experts (SMEs) who can customize tailor curricula to:

- Initiate new instruction, modules and courses.
- Integrate/modify ongoing education, training, and information exchange material for curricula/activities (conferences, seminars, workshops, information sharing).
- Assist development of reference materials, handbooks, multiservice/ joint publications, and other relevant documents.

Emerging Requirements

ER focuses on supporting the DTRA Priorities for:
- CWMD/EMERGING THREATS MISSION EXCELLENCE by using SME to ensure an actionable, forward-thinking CWMD/emerging threats agenda for instruction & curricula.
- ALIGN RESOURCES TO POLICY, DOCTRINE, & STRATEGY by ensuring tasks and resources are aligned to requirements, needs and gaps.
- DRIVE THE INSTRUCTIONAL AGENDA WITH A SENSE OF URGENCY by finding, coordinating, and producing solutions that provide timely, effective actions for CWMD education & training.

ER topic areas for tailored instruction,seminars, information exchange venues, electives, and training iterations include, but are not limited to:
- WMD/CBRNE, Radiological, & Nuclear Terrorism
- Radiological & Nuclear (SNM Focus) Materials of Concern
- EMP/HEMP Comparison for Responders
- Nuclear Reactors & Nuclear Reactor Accidents
- Radiological & Nuclear Cargo Hazards
- Survival on a Nuclear Battlefield
- Radiological & Nuclear Decontamination
- Nuclear Weapons Design and Design Evolution
- Operation TOMODACHI Lessons Learned
- Tuwaitha - Iraq Survey Group Case Study
- Minot to Barksdale Overview and Lessons Learned
- Legacy and Current U.S. Nuclear Weapons Stockpile
- Nuclear Battlefield

Please contact the ER team for further information or request support;
Manager: Mr. Chris Pink, (505) 846-6254
Mr. David Horan, (505) 846-4601
Mr. Leandro Lovato, (505) 846-1193

Battlefield Nuclear Resiliency (NUCRES)

Course ID/Number: In process
Course Prerequisites: N/A
Classification: //SECRET/RD/CNWDI// **Security Requirements:** Students/Attendees must have: a clearance equal to or above classification level of the meeting/course/event, a need to know, and a current visit authorization request (VAR) on file with DTRA
Uniform: Military: Uniform of the Day Civilians: Business Casual.
Format: Instructor-led, simulated exercise **MTT:** N/A **Course Length:** 3 days

Battlefield Nuclear Resiliency (NUCRES) strengthens the resiliency of Joint Force warfighters via immersive critical thinking scenarios focused on how proper preparation and understanding of nuclear weapon effects allow the Joint Force to operate in a nuclear environment. The mindset that a nuclear environment can be survived and operated within, provides a means to disrupt and/or change an adversary's risk calculus on whether to use a nuclear weapon or not. NUCRES is a three-day course where students learn U.S. Nuclear Policy, Strategy, and Procedures, nuclear weapon effects, the psychological effects of individuals encountering ionizing radiation found on a nuclear battlefield (Radphobia), and participate in an introductory simulated nuclear planning exercise as a culminating event.

Partnered Courses

- **DTRA CWMD Foundations Course**

DTRA CWMD Foundations Course

Course ID/Number: 260
Course Prerequisites: N/A
Classification: SECRET/NOFORN/RD/CNWDI. Phase I online is limited to Controlled Unclassified Information. Phase II residence is SECRET/NOFORN. The associated Nuclear Weapons Instructional Museum (NMIM) tour has additional Restricted Data (RD) and Critical Nuclear Weapons Design Information (CNWDI) briefing requirements.
Course Length: Phase I, 8 hours of online learning, over 3 weeks, Phase II, 32 hours of resident instruction, 4 days

CWMD Foundations Course is an 8 hour online portion with a four-day in-resident course providing newcomers to the Defense Threat Reduction Agency (DTRA) a baseline knowledge and understanding of DTRA's role within the CWMD mission space. The course covers U.S. and DOD CWMD policy and how DTRA provides this knowledge to the DOD, United States Government, and our international partners to DETER, PREVENT, and PREVAIL in the CWMD arena. The online course provides the background knowledge of Weapons of Mass Destruction, Chemical, Radiological, and Nuclear (CBRN) as well as DTRA CWMD mission responsiblities. The in-person resident course facilitates reinforcement from presentations by representatives of different DTRA Directorates.

***Course dates for FY24 Third and Fourth Quarters are still pending but will be available in the online catalog when the dates have been confirmed.*

DISTANCE LEARNING TRAINING

- **Applied Radiological Response Techniques – Level 1 (ARRT-1) Modules**
- **Basic Science Skills (BSS) Modules**
- **Joint Nuclear Weapons Publications System (JNWPS)**
- **Nuclear Safety Studies and Review (NSSR)**
- **Nuclear Weapons Surety (NWS)**
- **Personnel Reliability Assurance Program (PRAP)**

The school currently offers online training content on two platforms, on the DNWS Learning Content Management System (LCMS) and on the Joint Knowledge Online (JKO) Learning Management System (LMS).

Using DNWS LCMS: Navigate to https://dnws.dtra.mil. Login using your CAC. Click on the "Training Courses" link on the DNWS Home Page. Available courses will display in the list.

Using JKO LMS: Navigate to https://jko.jten.mil/. Login using your CAC or JKO login credentials. Conduct a course catalog search for the following "prefix": DNWS. Apply the Search. Available DNWS courses will display in the list.

Note: The user must create/register for a student account on either of the above sites.

Applied Radiological Response Techniques – Level 1 (ARRT-1) Modules

DNWS Course Number: DNWS NR 200 DL, USA DNWS-R027, DPS NM 200339, DTRA-0020
JKO Course Number: DNWS-AD01-AD08
Course Prerequisites: Basic Scientific Skills Modules and Nuclear Weapons Surety (NWS) **Classification:** UNCLASSIFIED
Security Requirements: None **Course Length:** 20 hours, self-paced

ARRT-1 is an awareness-level course that provides instruction on basic radiological response techniques. This course is based on a series of modules that cover the following: Basic Radiation Science, Characteristics of Radiation, Radiation Units of Measure, Gas Filled Detectors, Solid State Detectors, Radiation Exposure Control, Radiological Contamination Control, and Radiological Survey Planning.

Basic Science Skills (BSS) Modules

DNWS Course Number: DNWS HP 080 DL
JKO Course Number: DNWS-HD01-HD05
Course Prerequisites: None
Classification: UNCLASSIFIED
Security Requirements: None
Course Length: 5 modules approximately 60 min each (total 5 hours), self-paced

Basic Science Skills comprises five stand-alone modules that can be completed in sequence or individually, as the student or in-residence course manager sees fit. This online series is considered a prerequisite/refresher in the fundamentals of the basic sciences as they relate to the Nuclear Enterprise.

Joint Nuclear Weapons Publications System (JNWPS)

DNWS Course Number: DNWS NS 105 DL
JKO Course Number: DNWS ID-01
Course Prerequisites: N/A
Classification: UNCLASSIFIED
Security Requirements: None
Course Length: 4 hours, self-paced

JNWPS is an awareness level course that provides an introduction of basic concepts and principles related to the Joint Nuclear Weapons Publication System (JNWPS) for professionals supporting the nuclear weapons enterprise. The course goal is to provide clear understanding of the JNWPS and why it exists.

Nuclear Safety Studies and Review (NSSR)

DNWS Course Number: DNWS SA 103 DL
JKO Course Number: DNWS SD-01
Course Prerequisites: DNWS NI 101- DL (PRAP), DNWS NI 104 DL (NWS)
Classification: UNCLASSIFIED
Security Requirements: None
Course Length: 6 hours; self-paced

NSSR is an awareness level course that provides an introduction of basic concepts and principles related to nuclear safety studies and reviews for professionals supporting the nuclear weapons enterprise. The course goal is to facilitate a clear understanding of what nuclear safety studies and reviews are and why they are conducted.

Nuclear Weapons Surety (NWS)

DNWS Course Number: DNWS NI 104 DL
JKO Course Number: DNWS ND01
Course Prerequisites: N/A
Classification: UNCLASSIFIED
Security Requirements: None
Course Length: 8 hours

NWS is an awareness level course that provides an introduction of basic concepts and principles related to nuclear surety for professionals supporting the nuclear weapons enterprise. The course goal is to facilitate a clear understanding of what nuclear surety is and how nuclear surety is achieved.

Personnel Reliability Assurance Program (PRAP)

DNWS Course Number: DNWS NI 101 DL, JCS-201210
JKO Course Number: JKO DNWS WD01
Course Prerequisites: N/A
Classification: UNCLASSIFIED
Security Requirements: None
Course Length: 3 hours, self-paced

PRAP is an awareness level course that provides an introduction of basic DOD PRAP fundamentals and concepts for personnel who are assigned duties involving nuclear weapons or nuclear command and control systems. The course addresses PRAP concepts, roles, responsibilities, and processes in support of nuclear surety and further explains these concepts in relationship to real-world scenarios.

HOSTED COURSES

- **Defense Integration and Management of Nuclear Data Services (DIAMONDS)**
- **Functional Area 52 Qualification Course (FA-52 QC Phase 1)***
- **Joint Countering Weapons of Mass Destruction Planning Course (JCPC)**
- **Medical Effects of Ionizing Radiation (MEIR)**
- **Mission Assurance Assessment Course (MAAC)**
- **Nuclear Weapons Technical Inspections Course (NWTIC)**
- **Theater Nuclear Operations Course (TNOC)**

CBRNE Modeling Simulation Courses

- **DTRA Reach-back Support to Targeting Executive Course (DTRA TGT Exec)**
- **Geospatial Analysis for Consequence Assessment – Level 1 (GACA-1)**
- **Geospatial Analysis for Consequence Assessment – Level 2 (GACA-2)**
- **High Altitude Nuclear Effects (HANE)**
- **Hazard Prediction and Assessment Capability Level 1 (HPAC-1)**
- **Hazard Prediction and Assessment Capability Level 2 – Chemical, Biological, Radiological (HPAC-2-CBR)**
- **Hazard Prediction and Assessment Capability Executive Course (HPAC-Exec)**
- **Hazard Prediction and Assessment Capability – Nuclear (HPAC-N)**
- **Integrated Munitions Effects Assessment Level 1 (IMEA-1)**
- **Integrated Munitions Effects Assessment Level-2 - Conventional (IMEA-2-C)**
- **Integrated Munitions Effects Assessment - Nuclear (IMEA-N)**
- **NCBRE (Nuclear, Chemical, Biological, Radiological, and high-yield Explosive) Analysis Toolset - Consequence Assessment (NATs-CA)**
- **NCBRE (Nuclear, Chemical, Biological, Radiological, and high-yield Explosive) Analysis Toolset –Consequence Assessment – Nuclear (NATs-CA-N)**
- **Vulnerability Assessment and Protection Option Level 1 (VAPO-1)**
- **Vulnerability Assessment and Protection Option Level 2 (VAPO-2)**

** Restricted course - registration request must go through the controlling agency.*

Defense Integration and Management of Nuclear Data Services (DIAMONDS)

Course ID/Number: DNWS P 100
Course Prerequisites: N/A

Classification: SECRET
Security Requirements: CNWDI
Course Length: 3 days

DIAMONDS Training is a 3-day course that provides hands-on familiarization training with the national nuclear stockpile's sole accountability database for prospective and current users. Content of this course outlines current practices for generation, process, and submission of nuclear accountability transactions in the DIAMONDS system, as well as, the incorporation of DOD nuclear weapons accountability policies and procedures. Students should already be familiar with nuclear accountability transactions outside of DIAMONDS.

This Course is sponsored by the DTRA/J10NL. For more information please contact Diana Kuhn, (703) 767-4315, *diana.l.kuhn.civ@mail.mil*

Functional Area 52 Qualification Course (FA-52 QC Phase 2)*

Course ID/Number: DNWS P 500, USA DNWS-NROOC, USN S-140-0007
Course Prerequisites: N/A

Classification: SECRET
Security Requirements: Restricted Data/CNWDI or DOE "Q"
Course Length: Varies

The Functional Area 52 Qualification Course (FA52 QC Phase 2) is hosted annually at DNWS by the U.S. Army Nuclear and CWMD Agency (USANCA). The training is for U.S. Army FA-52 officers and serves as the Nuclear and CWMD Officers Functional Area Phase 2 qualifying course. Other students accepted by exception. Topics include; an overview of the physics of nuclear weapons, weapon characteristics, weapon engineering, weapon surety, weapon subsystem/component technology, scope of the U.S. nuclear weapons program, stockpile stewardship, and the nuclear fuel cycle. In addition, students will conduct critical site visits to DOE laboratories and receive information briefings from subject matter experts.

For more information please contact Mr. Bill Coffin, (703) 545-9817, *william.j.coffin.civ@army.mil* or *usarmy.belvoir.hqda-dcs-g-3-5-7.mbx.usanca-proponency-division@mail.mil*

**** Restricted course - registration request must go through the controlling agency.***

Joint Countering Weapons of Mass Destruction Planning Course (JCPC)

Course ID/Number: DNWS P 300
Course Prerequisites: N/A

Classification: SECRET
Security Requirements: None
Course Length: 5 days

JCPC is a 5-day course that introduces students to U.S. Government and DOD policy, strategy, doctrine, and planning related to CWMD; teaches students to recognize CWMD equities in a strategic and operational context, and demonstrates how to incorporate them into the Joint Planning Process (JPP). The first half of the course focuses on the three strategic end states (prevent (pathway defeat), protect (WMD defeat), and respond (minimize WMD effects)) and the six CWMD Activities with their supporting tasks identified in the DOD Strategy for Countering WMD and joint doctrine. The second half of the course takes students through select areas of the JPP and merges CWMD and JPP concepts through a series of facilitator-led, small-group planning exercises.

This Course is sponsored by DTRA Intelligence and Plans Directorate. For more information please contact Mr. Victor Carter, (571) 616-6342, *victor.t.carter3.civ@mail.mil*

Medical Effects of Ionizing Radiation (MEIR)

Course ID/Number: DNWS P 432
Course Prerequisites: None

Classification: SECRET
Security Requirements: DOD SECRET or DOE Q
Course Length: 5 days

The Medical Effects of Ionizing Radiation (MEIR) course is post-graduate level instruction concerning the biomedical consequences of radiation exposure, how the effects can be minimized, and how to medically manage casualties. The training includes nuclear incidents that can occur on or off the battlefield and that go beyond nuclear weapons events. It covers thoroughly all four of the key subjects: health physics, biological effects of radiation, medical/health effects, and psychological effects.

For more information contact LT Aure Stewart, (301) 295-1963, *aure.stewart@usuhs.mil*

Mission Assurance Assessment Course (MAAC)

Course ID/Number: DNWS P 331, G55000APCIL
Course Prerequisites: JKO Course J3OP-US1401, Mission Assurance
Classification: SECRET
Security Requirements: None
Course Length: 5 days

MAAC is a 5-day course that provides training on the DOD Mission Assurance Assessment (MAA) program, which is an integrated approach to assessing risk to mission. Students are provided the methodologies and tools to conduct MAAs of assets identified as critical to mission accomplishment. Students will also assess the mission assurance related programs and activities as they apply to the asset(s) using the DOD MAA Benchmarks. The course includes facilitated discussions, case studies, mock interviews, classroom exercises, field group exercises, and subject matter expert breakout sessions.

This course is sponsored by the Joint Staff, Deputy Directorate for Nuclear, Homeland Defense, and Current Operations (DD NHDCO), and conducted by DTRA.

For more information please email the DTRA MAA Help Mailbox: *dtra.belvoir.ne.mbx.ne-maa-help@mail.mil* or *dtra.belvoir.ne.mbx.ne-maa-help@mail.smil.mil*.

Nuclear Weapons Technical Inspections Course (NWTIC)

Course ID/Number: DNWS P 120
Course Prerequisites: DNWS DL Course NW104DL: Nuclear Weapon Surety (NWS)
Classification: SECRET **Security Requirements:** Restricted Data-CNWDI
Uniform: As directed by the individual service for military & business casual for civilians.
Format: In residence **MTT:** Yes, specified dates and upon request **Course Length:** 4 days

NWTIC is a 4-day course that provides instruction on common inspection methodology to better baseline and educate Service Inspectors for the Nuclear Enterprise. The course will use lectures, facilitated group discussions, and inspection scenarios to ensure strict and consistent application of nuclear weapon technical inspection guidance.

Theater Nuclear Operations Course (TNOC)

Course ID/Number: DNWS P 305, USN S-140-0004, USA DNWS RO13, USAF-J5OZD13B404DA, DNWS MTT DNWS P 305 M
Course Prerequisites: NCP-52 or NWOC
Classification: SECRET
Security Requirements: Restricted Data-CNWDI
Course Length: 5 days

TNOC is a 5-day course that provides training for planners, support staff, targeting staff, and staff nuclear planners for nuclear joint operations and targeting. The course provides instruction on theater integration of U.S. nuclear capabilities into conventional operations, U.S. nuclear policy, joint nuclear doctrine, nuclear effects modeling, consequences of execution, and targeting concepts. An NWIM tour at the S//RD-CNWDI level is also included.

For more information please contact CW3 David McMorris, (571) 515-9965, *david.j.mcmorris.mil@mail.mil* or *usarmy.belvoir.hqda-dcs-g-3-5-7.mbx.usanca-proponency-division@mail.mil*

DTRA Reach-back Support to Targeting Executive Course (DTRA TGT Exec)

Course ID/Number:
Course Prerequisites: None
Classification: Controlled Unclassified Information (CUI)
Security Requirements: A clearance equal to or above classification level of the meeting/course/event, A need to know, A current visit authorization request (VAR) on file with DTRA
Course Length: 1 day; 8 hours

The DTRA Reach-back Support to Targeting Executive Course (DTRA TGT Exec) is a one-day course that provides Leaders/Decision Makers and staff members with exposure to activities and actions taken by analysts in support of Combatant Command's targeting process. Upon completion of the course, participants will recognize DTRA Reach-back involvement (inputs and outputs) with each phase of the targeting process. This includes the development of HPAC products in order to best communicate the hazards associated with their operations, understanding the uncertainties related to HPAC modeling products, and presenting the guidance needed to meet targeting requirements for targets with potential CBRNE and WMD hazards in accordance with CJCSI 3160.01D.

Geospatial Analysis for Consequence Assessment – Level 1 (GACA-1)

Course ID/Number: DNWS P 170, USA GACA-1
Course Prerequisites: N/A

Classification: UNCLASSIFIED
Security Requirements: None
Course Length: 4 days

GACA–1 is a 4-day course that provides students with tools to analyze CBRNE and natural hazards using Geospatial Information Systems (GIS) in conjunction with DTRA hazard modeling software. Students will work to produce comprehensive decision support products that communicate the operational impact of CBRNE and natural hazards to a Commander or Common Operational Picture (COP).

Software Registration is required (CBRNE Decision Support site: *https://cbrnedss.dtra.mil* for FIRST Basic, FIRST Nuclear and ICWater).

For more information contact CW5 Leonardo Cargill, (703) 677-3352,
dtra.belvoir.rd.mbx.reachback-training@mail.mil

Geospatial Analysis for Consequence Assessment – Level 2 (GACA-2)

Course ID/Number: DNWS P 171, USA GACA-2
Course Prerequisites: DNWS P 170, USA GACA-1

Classification: UNCLASSIFIED
Security Requirements: None
Course Length: 4 days

GACA–2 is a 4-day course that builds on the work in GACA–1 to apply modeling and analysis techniques to DTRA and third-party software to improve response time and streamline the modeling/analysis process of a CBRNE incident. Students will develop methods to communicate CBRNE response products across multiple software platforms.

Software Registration is required (CBRNE Decision Support site: *https://cbrnedss.dtra.mil* for FIRST Basic, FIRST Nuclear and ICWater).

For more information contact CW5 Leonardo Cargill, (703) 677-3352,
dtra.belvoir.rd.mbx.reachback-training@mail.mil

High Altitude Nuclear Effects (HANE)

Course ID/Number: DNWS CM-270
Course Prerequisites: N/A

Classification: SECRET
Security Requirements: Restricted Data-CNWDI
Course Length: 4 days

HANE is a modular, 4-day course that provides students with the basic concepts involving high altitude nuclear detonations, prompt and persistent nuclear environments, EMP, and their effects on military systems and infrastructure. The course includes basic understanding of the physics of high altitude nuclear explosions, survivability of space-based, airborne and ground based systems, and effects on radar and radio wave communications. Training includes software demonstrations, hands-on familiarization and practices using both command line and graphical user interfaces. Emphasis is placed on mission level and system performance impacts.

For more information contact CW5 Leonardo Cargill, (703) 677-3352,
dtra.belvoir.rd.mbx.reachback-training@mail.mil

Hazard Prediction and Assessment Capability Level 1 (HPAC-1)

Course ID/Number: DNWS P 145, USA DTRA-ALEX-HL1
Course Prerequisites: N/A

Classification: UNCLASSIFIED
Security Requirements: None
Course Length: 5 days

HPAC–1 is a 5-day course that provides students with a basic level of competency in the modeling of hazardous material releases using the DTRA HPAC software package. Upon completion of the course, students will learn to apply the HPAC model to predict hazard environment areas and potential human effects based on user's mission requirements.

Software Registration is required (CBRNE Decision Support site: *https://cbrnedss.dtra.mil)*.

For more information contact CW5 Leonardo Cargill, (703) 677-3352,
dtra.belvoir.rd.mbx.reachback-training@mail.mil

Hazard Prediction and Assessment Capability Level 2 – Chemical, Biological, Radiological (HPAC-2-CBR)

Course ID/Number: DNWS P 150-C, USA DTRA-ALEX-HL2, DHS CM-150
Course Prerequisites: HPAC-1 and six months of HPAC experience
Classification: UNCLASSIFIED **Security Requirements:** None **Course Length:** 5 days

HPAC-2-CBR is a 5-day course that provides students with a higher level of proficiency in modeling and analysis of chemical, biological, or radiological (CBR) hazard release using HPAC. Upon completion of the course, students will learn to apply HPAC advanced software features to model the transport and dispersion of CBR materials and their potential human and collateral effects based on mission requirements.

Software Registration is required (CBRNE Decision Support site: *https://cbrnedss.dtra.mil)*.

For more information contact CW5 Leonardo Cargill, (703) 677-3352,
dtra.belvoir.rd.mbx.reachback-training@mail.mil

Hazard Prediction and Assessment Capability Executive Course (HPAC-Exec)

Course ID/Number: DNWS P 101, USA DTRA-ALEX-HL2
Course Prerequisites: A basic understanding of the HPAC model and Consequence Assessment Modeling is desired but not required
Classification: UNCLASSIFIED **Security Requirements:** None **Course Length:** 2 days

HPAC-Exec is a 2-day course that provides Leaders/Decision Makers exposure to the Consequence Assessment Modeling methodologies and their capabilities and limitations. Upon completion of the course students will recognize HPAC products to best communicate the hazards associated with their operations, understand the uncertainties related to their HPAC products, and the guidance needed to provide the best modeling and simulation support.

For more information contact CW5 Leonardo Cargill, (703) 677-3352,
dtra.belvoir.rd.mbx.reachback-training@mail.mil

Hazard Prediction and Assessment Capability – Nuclear (HPAC-N)

Course ID/Number: DNWS P 150-N, USA DTRA-ALEX-HL2
Course Prerequisites: N/A
Classification: UNCLASSIFIED
Security Requirements: None
Course Length: 5 days

HPAC-N is a 5-day course that provides students with a higher level of proficiency in modeling and analysis of nuclear hazard release using HPAC. Students will learn to apply the HPAC model to predict hazard environment areas and potential human effects based on user mission requirements.

Software Registration is required (CBRNE Decision Support site: *https://cbrnedss.dtra.mil)*.

For more information contact CW5 Leonardo Cargill, (703) 677-3352,
dtra.belvoir.rd.mbx.reachback-training@mail.mil

Integrated Munitions Effects Assessment Level 1 (IMEA-1)

Course ID/Number: DNWS P 105, USA DTRA-ALEX-IL1
Course Prerequisites: N/A
Classification: SECRET
Security Requirements: None
Course Length: 5 days

IMEA-1 is a 5-day course that provides students with an initial level of competency in IMEA. Students will experience the capabilities and limitations of IMEA by creating/obtaining and equipping target models (buildings, bunkers and tunnels), analyzing conventional weapons penetration and damage capabilities, creating attack plans, and analyzing and interpreting results. Software Registration is required (CBRNE Decision Support site: *https://cbrnedss.dtra.mil)*.

For more information contact CW5 Leonardo Cargill, (703) 677-3352,
dtra.belvoir.rd.mbx.reachback-training@mail.mil

Integrated Munitions Effects Assessment Level 2 - Conventional (IMEA-2-C)

Course ID/Number: DNWS P 110, USA DTRA-ALEX-IL2
Course Prerequisites: IMEA-1

Classification: UNCLASSIFIED
Security Requirements: None
Course Length: 5 days

IMEA-2-C is a 5-day course that provides students with advanced skills in the application of IMEA conventional strike capabilities and limitations. Students will be exposed to an in-depth review of each methodology underlying the calculations in IMEA. Methodology lectures are followed by hands-on use of tailored IMEA scenarios.

Software Registration is required (CBRNE Decision Support site: *https://cbrnedss.dtra.mil)*.

For more information contact CW5 Leonardo Cargill, (703) 677-3352, *dtra.belvoir.rd.mbx.reachback-training@mail.mil*

Integrated Munitions Effects Assessment - Nuclear (IMEA-N)

Course ID/Number: DNWS P 115, USA DTRA-ALEX-IL2
Course Prerequisites: IMEA-1 (preferred, not required)

Classification: SECRET
Security Requirements: Formerly Restricted Data (FRD)
Course Length: 5 days

IMEA-N is a 5-day course that provides students with basic skills in the application of IMEA nuclear strike capabilities and limitations. Students will achieve proficiency with importing and creating target models, developing attack plans, performing consequence assessment to WMD scenarios, and communicating results.

Software Registration is required (CBRNE Decision Support site: *https://cbrnedss.dtra.mil)*.

For more information contact CW5 Leonardo Cargill, (703) 677-3352, *dtra.belvoir.rd.mbx.reachback-training@mail.mil*

NCBRE (Nuclear, Chemical, Biological, Radiological, and high-yield Explosive) Analysis Toolset - Consequence Assessment (NATs-CA)

Course ID/Number: DNWS P 260
Course Prerequisites: N/A

Classification: UNCLASSIFIED **Security Requirements:** None **Course Length:** 5 days

NATs-CA is a five-day course in which the student achieves a basic level of competency in the modeling of Chemical, Biological, Radiological, and Nuclear (CBRN) hazard releases. Students use NAT, a Net-centric tool, in a collaborative environment to predict hazard environment areas and potential human effects based on mission requirements.

Account Registration: On CBRNE Decision Support site: *https://cbrnedss.dtra.mil*

For more information contact CW5 Leonardo Cargill and the training coordinator, (703) 677-3352, *dtra.belvoir.rd.mbx.reachback-training@mail.mil*

MTT: Based on availability and coordination with DTRA CBRNE training manager.

NCBRE (Nuclear, Chemical, Biological, Radiological, and high-yield Explosive) Analysis Toolset –Consequence Assessment – Nuclear (NATs-CA-N)

Course ID/Number: DNWS P 261
Course Prerequisites: N/A

Classification: UNCLASSIFIED **Security Requirements:** None **Course Length:** 5 days

NATs-CA-N is a five-day course in which the student achieves an initial level of competency in the modeling of nuclear hazard releases. Students use NATs, a Net-centric tool, in a collaborative environment to predict nuclear hazard environment areas and potential human effects based on mission requirements.

Account Registration: On CBRNE Decision Support site: *https://cbrnedss.dtra.mil*

For more information contact CW5 Leonardo Cargill and the training coordinator, (703) 677-3352, *dtra.belvoir.rd.mbx.reachback-training@mail.mil*

MTT: Based on availability and coordination with DTRA CBRNE training manager.

Vulnerability Assessment Protection Options Level 1 (VAPO-1)

Course ID/Number: DNWS P 135, USA DTRA-ALEX-VL1
Course Prerequisites: N/A
Classification: UNCLASSIFIED
Security Requirements: None
Course Length: 5 days

VAPO-1 is a 5-day course in which students will receive instruction in the full functionality of VAPO to include its capabilities, limitations, and assumptions. Using VAPO functionality, students will assess and analyze a spectrum of threats against assets and develop mitigating strategies with respect to vulnerability assessment and force protection.

Software Registration is required (CBRNE Decision Support site: *https://cbrnedss.dtra.mil)*.

For more information contact CW5 Leonardo Cargill, (703) 677-3352, *dtra.belvoir.rd.mbx.reachback-training@mail.mil*

Vulnerability Assessment Protection Options Level 2 (VAPO-2)

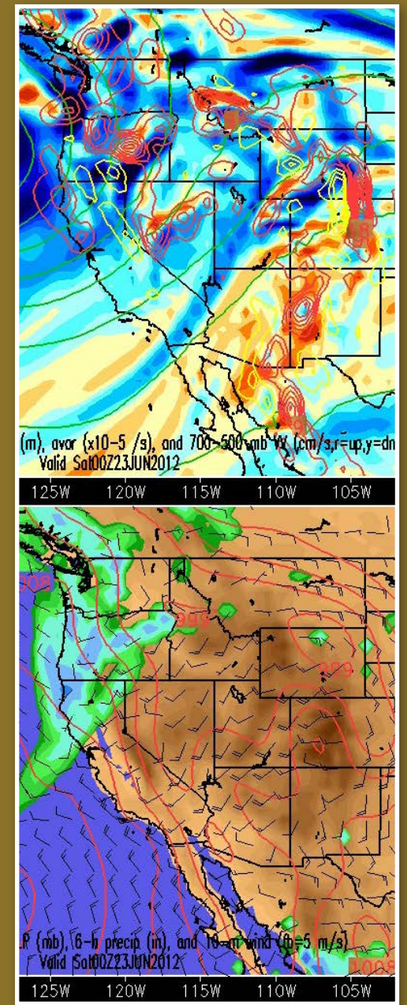
Course ID/Number: DNWS P 140, USA DTRA ALEX VL2
Course Prerequisites: VAPO-1
Classification: UNCLASSIFIED
Security Requirements: None
Course Length: 4 days

VAPO–2 is a 4-day course designed to enable users to achieve a higher level of understanding of the software's physics based blast effects models to enhance the application of VAPO for force protection, anti-terrorism and vulnerability assessment modeling against a wide spectrum of real world threats.

For more information contact CW5 Leonardo Cargill, (703) 677-3352, *dtra.belvoir.rd.mbx.reachback-training@mail.mil*

DTRA Research & Development Directorate, Reachback Division (RD-OPR) provides 24/7 Chemical, Biological, Radiological, Nuclear, Explosive (CBRNE) SME and decision support for planning, operations, and post-event analysis to warfighters and emergency responders. Additionally, Reachback manages and implements the DTRA training contracts in support of Joint, Intergovernmental, Interagency, and Multinational organizations, providing training on DTRA CBRNE decision support analysis software tools. The DTRA CBRNE Decision Support Analysis Capabilities Training Support team provides training on DTRA- and third party-developed Weapons of Mass Destruction (WMD) models, tools, and capabilities for military and emergency responder operations. Reachback offers the following CBRN Modeling and Simulations courses at DNWS. Classes are normally 4-5 days in length.

- DTRA Reach-back Support to Targeting Executive Course (DTRA TGT Exec)
- Geospatial Analysis for Consequence Assessment – Level 1 (GACA-1)
- Geospatial Analysis for Consequence Assessment – Level 2 (GACA-2)
- High Altitude Nuclear Effects (HANE)
- Hazard Prediction and Assessment Capability Level 1 (HPAC-1)
- Hazard Prediction and Assessment Capability Level 2 – Chemical, Biological, Radiological (HPAC-2-CBR)
- Hazard Prediction and Assessment Capability Executive Course (HPAC-Exec)
- Hazard Prediction and Assessment Capability – Nuclear (HPAC-N)
- Integrated Munitions Effects Assessment Level 1 (IMEA-1)
- Integrated Munitions Effects Assessment Level-2 - Conventional (IMEA-2-C)
- Integrated Munitions Effects Assessment - Nuclear (IMEA-N)
- Medical Effects of Ionizing Radiation (MEIR)
- NCBRE (Nuclear, Chemical, Biological, Radiological, and high-yield Explosive) Analysis Toolset - Consequence Assessment (NATs-CA)
- NCBRE (Nuclear, Chemical, Biological, Radiological, and high-yield Explosive) Analysis Toolset – Consequence Assessment – Nuclear (NATs-CA-N)
- Nuclear Weapons Technical Inspections Course (NWTIC)
- Vulnerability Assessment and Protection Option Level 1 (VAPO-1)
- Vulnerability Assessment and Protection Option Level 2 (VAPO-2)



NUCLEAR WEAPONS INSTRUCTIONAL MUSEUM & TRAINING SITES

- **Nuclear Weapons Instructional Museum**
- **DNWS Tour Request Procedures**
- **DNWS Training Sites**

Nuclear Weapons Instructional Museum

DNWS manages and operates the only classified Nuclear Weapons Instructional Museum (NWIM) in DOD. The NWIM is an irreplaceable repository that traces the history and development of the U.S. nuclear weapons stockpile from its inception to the present. The NWIM contains displays of all stockpiled U.S. nuclear weapons and their associated components and delivery systems, as well as related training aids.

In addition to preserving artifacts of unique historic significance, the DNWS NWIM serves as an important teaching aid. Tours are provided in conjunction with some courses conducted at the DNWS and vary in length from two to four hours, depending on the nature of the audience. Touring the NWIM displays afford students and visitors a rare opportunity to view exhibits and to discuss stockpile issues with experienced instructors.

The NWIM has two major components:

1. An unclassified display area where visitors may view a number of different weapon casings, and a display of U.S. and foreign missile delivery systems.

2. A classified museum displaying detailed nuclear weapon models. Arrangements can be made for groups and visitors to tour the NWIM on Tuesdays, Wednesdays, and Thursdays only; Mondays and Fridays the museum is closed to tours for maintenance and upkeep operations. Tours are available for anyone who meets security clearance requirements, has a need-to-know, and submits the required Visitor Access Request (VAR) and clearance transfer in accordance with DTRA policy.

DNWS Tour Request Procedures

The following actions are required to request and book a tour of the NWIM:

All tour attendees requesting entry into the classified Museum must possess at a minimum a DOD SECRET clearance with Restricted Data (RD) and Critical Nuclear Weapons Design Information (CNWDI) caveats, or a DOE "Q" clearance. Please note that these caveats are not automatically included in a Secret or Top Secret clearance and require read-in by the owning organization to these respective programs if the personnel have a need to know. Personnel will not be read into RD and CNWDI by DNWS.

Please contact the NWIM Scheduler via email at dtra.kirtland.ne.mbx.dnws-nwim@mail.mil or via telephone at DSN 263-6383 or Commercial (505) 853-6383 for availability and scheduling.

All tour requests will submit a roster of attendees no later than 14 days prior to the visit. Rosters will be submitted to the NWIM scheduler at dtra.kirtland.ne.mbx.dnws-nwim@mail.mil.

DOE INSTRUCTIONS: DOE Personnel with a current Q clearance must have their security/badging office submit a DOE Form 5631.20 signed by their applicable security personnel and submitted either to the DTRA ABQ Visitor control via fax (505) 846-8983 or electronically (dtra.kirtland.oi.list.oi-msca-abq-visitor-control@mail.mil).

Please enter information on DOE Form 5631.20 as it appears below:
- NAME OF FACILITY TO BE VISITED: Defense Threat Reduction Agency/ Defense Nuclear Weapons School
- FOR THE INCLUSIVE DATES: Enter Tour Date Only
- FOR THE PURPOSE OF: Nuclear Weapons Instructional Museum
- TO CONFER WITH THE FOLLOWING PERSON(S): Capt Ivan Duran
- CONTACT PHONE: 505-853-6383 FAX:505-846-8983
- ACCESS REQUESTED TO: Restricted Data (Check RD Box)
- OTHER CLASSIFIED INFORMATION: Yes (Check CNWDI Box)

DOD INSTRUCTIONS: DOD organizations will submit a visit request in DISS with the following information:
- SMO CODE: DTRA-ABQ-1
- POC FOR DISS: Capt Ivan Duran 505-853-6383
- DATES: Enter Tour Date Only

* Please direct all clearance inquiries or verifications to DTRA Security/Visitor Control. The NWIM does not handle any aspects of the security process.

The following items are not permitted in NWIM:
Backpacks/purses of any kind (storage area available outside the NWIM)
Food or drinks
Cell phones
Bluetooth devices (Exceptions can be made for medical devices. Contact DTRA Security 505-846-0116)
Smart watches
Any item with a data port (including pedometers)
Any automobile key fobs with two way data transmission capability
One way pagers

DNWS Training Sites

One of the most unique aspect to DNWS is our practical training. New Mexico's distinct legacy within the Nuclear Enterprise makes it the premiere locale for practical radiological and nuclear weapons training.

Located on Kirtland AFB, DNWS has access to several special training sites. The use of these sites is incorporated into many of the school's courses to reinforce the concepts and procedures explained in the classroom. In practical exercises, students are given the opportunity to recognize threats in real-time; don and use Personal Protectve Equipment (PPE); and practice response or search procedures using the actual equipment fielded to their parent organization. DNWS would not be able to provide these unique training experiences without the use of these training sites.

This section highlights two of the DNWS Training Sites on Kirtland AFB.

Operations/Training – 10 (OT-10) Sites

Called OT-10 sites by the Air Force, Training Sites 1 - 4 are the remainder of eight original sites developed by the school in 1961, largely in response to the Palomares nuclear weapons accident in Spain. The Palomares accident challenged responders with large scale radiological monitoring and clean-up operations. Eight fields were chosen and seeded with natural thorium, which is slightly radioactive, to create areas of detectable, elevated radiological background. The four sites still in use have a variety of aircraft or vehicle wreckage that students must navigate while employing detectors. Today, these sites are the only training areas of their type available to the DOD, to safely practice working in elevated background.

NETOPS, JNEODC, ARRT-2 and B/IRNT courses feature practical exercises using these training sites.

DNWS Advanced Radiological Training Site (DARTS)

The DARTS is a distinctive underground facility with over 12,000 square feet of enclosed training space. Formerly the Advanced Research EMP Simulator (ARES) facility, DARTS was first used by DNWS as a training site in 2018. Over the past three years, the DNWS team has gradually rehabilitated the facility from a testing platform into an invaluable training site that can replicate a variety of industrial facilities. Coordinated maintenance by the 210th RED HORSE Squadron has also freed up previously unusable underground areas adjacent to the facility that could be expanded into future training space.

ADT-2 and BIRNT courses feature practical exercises using this training site. The site is available for exercises and tailored training as well.

DNWS COLLEGE CREDIT & CERTIFICATION COURSES

- **College Credit and Recognition for DNWS Courses**
- **DNWS Training Certification Programs**

College Credit and Recognition for DNWS Courses

The American Council on Education (ACE) has recommended college credit for nine (9) DNWS courses, designated by the ACE logo in the respective course description. ACE is the major coordinating body for all of the nation's higher education institutions and provides a unifying voice on key higher education issues. The level of credit (undergraduate or graduate) and the number or recommended credit hours are listed in the adjacent table. DNWS has also partnered with the following colleges and universities to simplify credit transfers: Strayer University, SUNY Empire State College, Colorado Technical University, University of Maryland University College (UMUC), and National American University (NAU) Henley-Putnam School of Strategic Security.

For more than 30 years, colleges and universities have trusted ACE to provide reliable course equivalency information to facilitate their decisions to award academic credit. For more information, visit the website at *https://www.acenet.edu/news-room/Pages/The-ACE-CREDIT-College-and-University-Network.aspx*. Additionally, DNWS participates in the ACE CREDIT Transcript Service. The Transcript Service offers a lifelong record for students who have successfully completed DNWS courses that have been evaluated and recommended by ACE CREDIT. For more information, visit the ACE CREDIT Transcript Service website at *https://www.acenet.edu/higher-education/topics/Pages/Transcript-Services.aspx*.

DNWS has also received accreditation/certification from the Joint Staff and New Mexico Department of Public Safety for several courses. Courses with these accreditation/certifications will be designated by the respective logo in the course description. See below for more details.

The Joint Staff (JCS) Certification

There are currently nine (9) DNWS courses that have joint certification. The Joint Staff Directorate for Joint Force Development (J7) certifies certain joint courses offered by DNWS for discretionary points toward Joint Qualified Officer (JQO) designation through the experience path of the Joint Qualification System (JQS). Students in the grades of O-1 through O-6 may self-nominate their experiences and submit course certificates to *https://milconnect.dmdc.osd.mil/milconnect/*. Select "Viewing Your Joint Officer History" to view your status towards becoming a JQO, and to request award of joint experience points. This input will be reviewed by the proper Joint Officer Matters channels of the respective service branches to obtain JQS credit.

New Mexico Department of Public Safety (NMDPS) Accreditation

The New Mexico Department of Public Safety has accredited five (5) of our courses. These courses meet the requirements for the Continuing Education Program (CEP) for First Responders. Once students complete one or more of these classes, they may download a certification letter from the transcript page. Students must use this letter in conjunction with the certificate to receive credit from the NM DPS Training Center.

College/ACE Number	DNWS Course Name	Colorado Technical University	Empire State College - SUNY	University of Maryland University College	Strayer University	National American University
DTRA-0011	NWOC	3 SH/Upper Div	2 SH/Lower Div	2 SH/Lower Div	2 SH/Upper Div	4.5 QH/Lower Div
DTRA-0013	NUCPOL	4.5 SH/Upper Div	3 SH/Upper Div	2 SH/Upper Div	3 SH/Upper Div	4.5 QH/Graduate
DTRA-0017	NETOPS	9 SH/Upper Div	6 SH/Upper Div		6 SH/Upper Div	9 QH/Lower Div
DTRA-0019	NWOC MTT	3 SH/Upper Div	2 SH/Lower Div		2 SH/Upper Div	4.5 QH/Upper Div
DTRA-0020	ARRT-1	3 SH/Lower Div	3 SH/Upper Div		2 SH/Upper Div	3 QH/Upper Div
DTRA-0021	ARRT-2	4.5 SH/Upper Div	2 SH/Upper Div	2 SH/Upper Div	3 SH/Upper Div	4.5 QH/Upper Div
DTRA-0022	ADT-1		3 SH/Upper Div			4.5 QH/Lower Div
DNWS NR 201	ADT-2					4.5 QH/Upper Div
DNWS NR 250	JNEODC					4.5 QH/Upper Div

DNWS Training Certification Programs

The DNWS offers a variety of training certification programs to prepare personnel to perform specific functions associated with nuclear weapons, incident/accident response, incident command and control, security, and CBRN modeling. These certification programs are intended to raise professional standards and to recognize and document the achievement of those standards. In most cases, the certificates earned through the DNWS have no expiration date. Certification within a program demonstrates an individual's competency in a specific subject area within the DNWS. Training certifications pertaining to specific organizations are developed and managed in close coordination with the proponent organization and in accordance with their requirements.

Nuclear Response Certification Programs: The Nuclear Response Certification Programs is designed to develop the practical skills required for personnel to conduct an initial evaluation of an incident/accident environment. While appropriate for any personnel requiring skills to respond to a radiological hazard, the nuclear response certification program supports and integrates into the overall WMD-CST certification established by the National Guard Bureau (NGB). This program is not intended to replace any WMD-CST training otherwise established by the NGB.

- Basic Incident Response (BIR) Certificate (ARRT-2)
- Advanced Incident Response Certificate (BIR Certificate + NETOPS)

Nuclear Weapons Certification Programs: The Nuclear Weapons Certification Programs are designed for personnel with responsibilities in the Nuclear Enterprise, such as nuclear weapons policy, nuclear weapons operations, and nuclear weapons surety. These certifications would be particularly valuable for combatant command staff members, joint staff members, and personnel working in other components of the Nuclear Enterprise such as: nuclear weapons intelligence, nuclear weapons maintenance, nuclear weapons operations, and nuclear weapons security.

- Basic Nuclear Weapons Certificate (NWOC)
- Intermediate Nuclear Weapons Certificate (Basic Nuclear Weapons Certificate + NUCPOL)
- Advanced Nuclear Weapons Certificate – Operations (Intermediate Nuclear Weapons Certificate + TNOC)
- Advanced Nuclear Weapons Certificate – Surety (Intermediate Nuclear Weapons Certificate + JNSEC)

Nuclear Matters Certification Program: The Nuclear Matters Certification Program is designed for personnel with responsibilities in nuclear weapons stockpile management and stewardship. The purpose of this certification program is to provide the candidate with familiarization in nuclear weapons and radiological incident/accident response; past and current U.S. nuclear policy; and basic Planning, Programming, Budget, and Execution (PPBE) and acquisitions.

- NWOC
- NUCPOL
- ACQ1010 or ACQ101

USAF Security Forces (SF) Nuclear Security Certification Training Program (NSCTP): NSCTP is designed for USAF SF personnel with responsibilities dealing with security of nuclear weapons. Level I certification is designed for SF nuclear security flight leadership such as flight chiefs, flight commanders, convoy commanders, flight security Officers, and similar personnel. Level II certification is designed for SF nuclear security group/squadron leadership such as group commanders, squadron commanders, SF operations officers, SF managers, SF operations superintendents, and similar personnel. Level III certification is designed for SF nuclear security policy personnel such as Air Staff, Headquarters Air Force Security Forces Center, MAJCOM, and Numbered Air Force nuclear security staff members and similar nuclear security policy personnel.

To become NSCTP certified, you must complete the following collective courses appropriate to your duty position or assigned position.

- Level I, USAF SF Nuclear Flight Certification (NWOC)
- Level II, USAF SF Nuclear Group/Squadron Certification (Level I + NWTIC)
- Level III, USAF SF Nuclear Policy Certification (Level II + JNSEC)

Incident Command and Control Certification Program: The Incident Command and Control Certification Program is designed for personnel with command and control responsibilities in the event of an incident/accident involving WMD. This certificate is particularly valuable for combatant command staff members, joint task force staff members, or personnel working in similar capacities.

- Incident Command and Control Certificate (NWIRT)

EOD WMD Certification Program: The EOD WMD Certification Program is designed to develop the practical skills required for EOD personnel across DOD to respond to a nuclear weapons accident/incident as part of the Initial Response Force (IRF) and perform appropriate Phase 0 requirements based on Federal guidance, to include Presidential Policy Directives (PPD), and DOD regulations. While appropriate for all general support EOD personnel requiring skills to respond to a nuclear weapon accident and nuclear incident, the EOD WMD Certification Training Program supports and integrates into the overall whole-of-government accident/incident response structure. This program is not intended to replace any
EOD WMD training otherwise established by the individual services.

- EOD WMD Certificate (ARRT-1 + ADT-1 + ADT-2 + JNEODC)

CBRN Modeling Certification Programs: The CBRN modeling certification programs are designed to recognize and document the completion of a comprehensive training program focused on specific hazard prediction modeling tools. This program is designed to support a wide audience that includes, but is not limited to WMD-CSTs; Consequence Management Advisory Teams (CMAT); Combatant Commands; and DOD, federal, state, and local emergency managers and planners.
The following are the certification requirements for CBRN Modeling.

- Hazard Prediction and Assessment Capability (HPAC) Certificate (HPAC-1 + HPAC-2)
- Advanced CBRN Modeling Certificate (HPAC certificate + GACA)

Personnel who have completed the criteria for a certification program may apply for certificates through the DNWS Registrar. The entire sequence must be completed within three years of initial registration into the first course of the sequence. Upon proper completion of an application for certification, the individual will receive a DNWS Certificate of Training in the applicable certification program. For further details on these certificate programs, see *https://dnws.dtra.mil/*.

DNWS FY 2024 COURSE CALENDAR

- DNWS FY 2024 Course Calendar
- Hosted Course Calendar

DNWS FY 2024 Course Calendar

NUCLEAR WEAPONS ORIENTATION, POLICY AND SENIOR EXECUTIVE TRAINING	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
JNSEC		1-2				27-28						
NUCPOL	23-27			8-12	5-9		(29	-3)			12-16	
NWOC		13-17	11-15	22-26	12-16	4-8	15-19	13-17	10-14		19-23	
NWOC (MTT)	16-18					19-21			4-6	(30	-1)	

• USSTRATCOM, Offutt AFB, NE • FE Warren AFB, WY • Barksdale, AFB, LA • Ramstein, Germany

NUCLEAR WEAPONS INCIDENT, ACCIDENT AND RESPONSE TRAINING - MTT	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
NETOPS				(22	-2) (26	18-29 -8)	1-12	6-17	3-14		5-16	9-20
NETOPS (MTT)			4-15 NSB									
NWIRT-DB						12-14			25-27			
NWIRT-DB (MTT)	(30	-1) NRNW 6-8 NRSE (29	-1) INDO-PACOM	9-11				6-10 NCR			6-8 20-22 27-29	10-12
NWIRT-DE (MTT)		3 NRNW 9 NRSE 27 INDO-PACOM		8				9 NCR			23 30	
NWIRT-OB (MTT)	23-24											
NWIRT-OE (MTT)	20											

NRNW - Naval Region North West, NSB Kitsap-Bangor, NRSA - NSB Kings Bay, NRSE - JB Pearl Harbor-Hickam, INDOPACOM - NCR National Capitol Region, Malmstrom AFB, Minot AFB, FE Warren AFB, Whiteman AFB, Spangdahlem AB, Germany - Panzer Kaserne, Germany

CWMD RADIOLOGICAL AND NUCLEAR TRAINING	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
ARRT-2		13-17		22-26	(26	-1)	8-12			8-12	5-9	23-27
B/IRNT	16-20				5-9	11-15	22-26			22-26	19-23	9-13

EXPLOSIVE ORDNANCE DISPOSAL SPECIALTY TRAINING	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
ADT-1		(27	-1)	22-26			8-12			8-12	5-9	
ADT-2			4-8	(29	-2) (26	-1)	15-19			15-19	12-16	
JNEODC			11-15		5-9	4-8	22-26			22-26	19-23	
WREC				9-11						1-3		

Please check the DNWS website (https://dnws.dtra.mil) for the most recent information, or contact the DNWS registrar for specific requests.

(-) denotes class carried over one month to another

EMERGING REQUIREMENTS	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
NUCRES										16-18		

PARTNERED COURSE	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May*	Jun	Jul	Aug*	Sep
CWMD Foundations	23-26			(29	-1) NCR							

**dates undetermined TBD* *(-) denotes class carried over one month to another*

Hosted Course Calendar

Hosted - CBRNE MODELING SIMULATION	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
FA-52 QC Phase 2	Restricted course - registration request must go through									(21	-16)	
GACA-1			5-8				9-12				13-16	
GACA-2						19-22						
HANE					5-7							
HPAC-1	16-20	13-17	11-15	8-12	5-9		15-19	20-24	10-14	15-19	5-9	16-20
HPAC-2-CBR		13-17				18-22						23-27
HPAC-N			11-15			4-8			3-7		19-23	
IMEA-1				22-26					3-7			
IMEA-2-C											5-9	
IMEA-N							8-12					
JCPC	16-20		4-8									
MAAC												
MEIR*												
NATS-CA					12-16							9-13
NATS-CA-N									24-28			
NWTIC	16-19 23-26	13-16		8-11			15-18			22-25	19-22	
TNOC	16-20 (30	-1)	4-8		5-9	11-15	22-26				12-16	
VAPO-1	2-6				12-16					22-26		
VAPO-2								14-17				

Location: • DTRA DNWS, Kirtland AFB, Albuquerque, NM • DTRA CBRNE M&S Training Center, Alexandria, VA • Ramstein, Germany • NCR - National Capital Region • USAARPAC • USANCA • STRATCOM • Barksdale, AFB, LA • RAF, Lakenheath • USAREUR-AF

Please check the DNWS website (https://dnws.dtra.mil) for the most recent information, or contact the DNWS registrar for specific requests.

(-) denotes class carried over one month to another

**dates undetermined TBD*

New Equipment - FY24
The Fielding of Joint Detector Systems

Under the Joint Program Manager CBRN Sensors, the Joint Product Leader Radiological and Nuclear Defense JPDL RND) was established in 2013 partly out of the lessons learned from Operation TOMODACHI with an overarching goal to develop, test and field the Department of Defense's first joint, interagency and international radiological detector known as the Radiological Detection System which begins fielding in FY 23. Additionally, in FY 22 fielding also begins with the Man Portable Radiological Detection System or MRDS.

Radiological & Nuclear Protection - Radiological Detection System (RDS)

Description: The Radiological Detection System (RDS) will replace DOD's legacy Radiation Detection and Computation (RADIAC) survey meters as well as USCG, UK, and Canadian legacy systems. The RDS will provide the Warfighter with the capability to detect alpha, beta, gamma, neutron, and low energy x-rays.

Legacy System Replacement: Replaces following systems reaching obsolescence: USA & USMC AN/PDR 77, USA AN/VDR 2, USAF ADM 300, USN & USCG Multi functional RADIAC (MFR) Suite

Capabilities: RDS possesses modern capability up-grades over legacy RADIAC systems including open architecture smart probes, Net Ready, GPS interface, and data logging. Provides a common, interoperable equipment with adequate sensitivity and common units of measure.

Radiological & Nuclear Prevention - Man Portable Radiological Detection System (MRDS)

Description: The MRDS provides increased Radiological Nuclear (RN) detection, localization, and presumptive and field confirmatory identification of Special Nuclear Material (SNM) capabilities that are networked to provide a near real time situational awareness at the tactical level. MRDS supports Countering Weapons of Mass Destruction Interdiction and Elimination operations, specifically RN Sensitive Site Assessment (SSA) and Sensitive Site Exploitation (SSE).

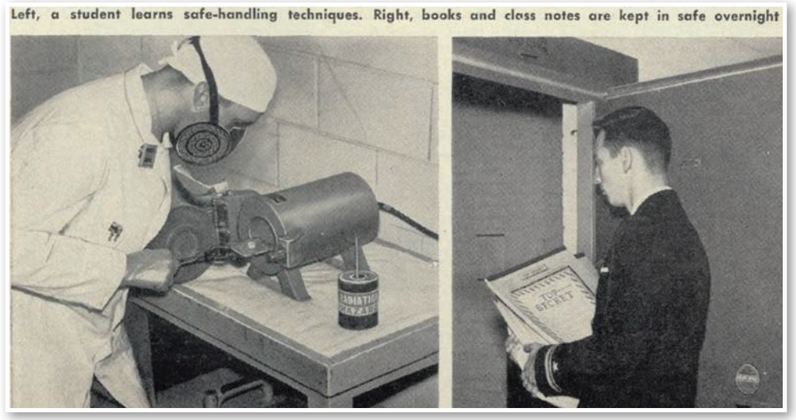
Legacy System Replacement:

- TSTIRS JCTD equipment Nuclear Disablement Team
- Various COTS Civil Support Team
- Adds New Capabilities to more Army CBRN Teams

Capabilities: Hands Free (HF) and Hand Held (HH) RN sensors. Situational awareness (SA) suite displays sensor data from all sensors at the tactical level. MRDS allows for SNM searching in radio frequency restricted facility.

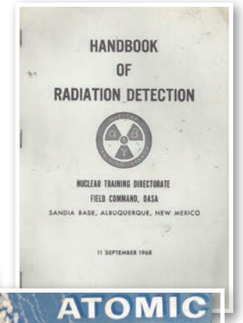
DNWS History:

Lieutenant General Leslie Groves, the director of the Manhattan Project, established the Armed Forces Special Weapons Project (AFSWP) on the U.S. Army's Sandia Base in 1947. General Groves hand selected 63 West Point graduates to man the AFSWP. These men were known as the Sandia Pioneers. One pioneer with an advanced degree and a background in military training, Colonel John A. Ord, was chosen to establish the Technical Training Group (TTG) to provide integral training in this revolutionary new warfare specialty.



The original core curricula was focused on the complex assembly of the first nuclear weapons. Nuclear weapon response was included as "disaster and salvage" training within these early courses, with nuclear bomb disposal classes added as early as 1948. Nuclear weapons orientation classes were also provided. As nuclear weapons evolved, the services took over more of the hands-on training of their weapons technicians while the school added more radiological defense training.

Today, the DNWS operates DOD's only radiological training sites. These sites are thorium-seeded fields that DNWS instructors use as an integral part of field training for radiological emergency team members. DNWS conducts a variety of radiological accident exercises at these training sites, as well as other local training areas, providing a realistic environment where students can apply their classroom knowledge. Students receive hands-on instruction and experience in the use of radioactivity monitoring instruments; and the proper donning of personal protective equipment.



In addition, DNWS manages and operates the only DOD classified Nuclear Weapons Instructional Museum (NWIM). The NWIM is an irreplaceable repository that traces the history and development of the U.S. nuclear weapons stockpile from its inception to the present and displays examples of all stockpiled U.S. nuclear weapons, associated components and some delivery systems. The school also maintains unclassified displays of radiological detectors and technologies along with some examples from the nuclear materials cycle.


Col John A. Ord

DEFENSE NUCLEAR WEAPONS SCHOOL

FY 2024 Radiological & Nuclear Training

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