DEFENSE NUCLEAR WEAPONS SCHOOL

RADIOLOGICAL AND NUCLEAR TRAINING

& INFORMATION ANALYSIS RESOURCES

FY 2016

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ACE CREDIT American Council on Education College Credit Recommendation Service

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DEFENSE THREAT REDUCTION AGENCY

HTTPS://DNWS.ABQ.DTRA.MIL

Defense Threat Reduction Agency
Defense Nuclear Weapons School

QUICK LOOKUP

Registrar Office
Email:
dtra.kirtland.J10.mbx.dnws-registrar@mail.mil
Phone: 505-846-5666
DSN: 246-5666
Fax: 505-846-9168
DSN: 246-9168
JPAS SMO Code: GQDD614
ATTN: DNWS Registrar,
TSgt Shalanda Capehart

Website support
https://dnws.abq.dtra.mil
(must connect via a .mil or .gov domain)
Email: dtra.kirtland.J10.list.dtra-dnws-it-support@mail.mil
Frequently Asked Questions Page
https://dnws.abq.dtra.mil/common/faq.cfm

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

DTRA Headquarters, Fort Belvoir, VA
FT Belvoir Lodging
Phone: 703-704-8600
or 1-800-295-9750

View from McDonald Ranch House - Trinity Site - 2014
Photo by: LT Michael Mcgonagle

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General Information

DNWS Overview

The Defense Nuclear Weapons School (DNWS), in existence since 1947, is located on Kirtland AFB, Albuquerque, New Mexico. This Defense Threat Reduction Agency school is a unique entity that provides training in nuclear weapons; chemical, biological, radiological and nuclear incident command, control and response, chemical, biological, radiological and nuclear (CBRN) modeling for the Department of Defense (DOD), other federal, state, and local agencies.

Mission: The mission of the DNWS is to provide nuclear weapons core competencies and response training for weapons of mass destruction and CBRN incidents to DOD, national laboratories personnel, and other federal, state, and local agencies.

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 and a robust incident response capability.

Courses: The DNWS delivers instructor-led courses in-residence and via Mobile Training Teams (MTTs) and offers distance learning courses online. The DNWS catalog includes 36 courses and 24 partnership modules. While most courses are taught in-residence at the DNWS, an expanding array of courses is offered via distance learning or MTT. The DNWS also hosts courses presented by the U.S. Army Nuclear and CWMD Agency and the Air Force Nuclear Weapons Center, providing facilities, instructors, subject matter expertise, and administrative support. Additionally, the DNWS provides experts who teach modules within courses taught by other federal entities such as the Department of State and the Federal Bureau of Investigation.

History: The Manhattan Engineer District, which developed the world's first atomic bomb, established the Nuclear Weapons Technical Training Group under the Armed Forces Special Weapons Project in January 1947. The Group's mission was "to provide training, both resident and non-resident, in support of nuclear weapon training programs worldwide; to be responsive to requests for training services and support required to meet the needs of all DOD components and other cognizant agencies." The Nuclear Weapons Technical Training Group later became the Special Weapons School located on the U.S. Army's Sandia Base, today part of Kirtland Air Force Base.

In 1971, the Defense Nuclear Agency (DNA) was directed to transfer the Special Weapons School to the U.S. Air Force, which renamed it the Interservice Nuclear Weapons School. In 1993, the school was transferred back to DNA and was subsequently renamed the Defense Nuclear Weapons School in 1997. DNA is a DTRA legacy organization.

Throughout its history, DNWS has supported the Office of the Secretary of Defense, the Joint Chiefs of Staff, the military Services, and the Combatant Commands by providing training, advice, and services in the field of nuclear weapons.

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, 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, the proper donning of personal protective equipment, and the collection of airborne radioactivity samples; in procedures for cleaning, inspecting, and proper wear of respirator protection; and in the setup and operation of contamination control stations. Students must integrate various modules of classroom instruction into intricate scenarios and determine what steps and equipment are required.

In addition, this school 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 and their associated components and delivery systems, as well as related training aids. Tours are provided in conjunction with some courses conducted at the DNWS and vary in length from two to four hours depending on the audience. Arrangements can be made for groups and visitors to tour the NWIM on Tuesdays, Wednesdays, and Thursdays only. Classified tours require a DOD Secret security clearance with Restricted Data or Critical Nuclear Weapons Design Information access or a Department of Energy "Q" clearance to participate. An unclassified tour is also available upon request. To solicit a special tour of the NWIM, a written request must be submitted and received a minimum of 15 working days before the scheduled tour date. Download a sample NWIM tour request letter or locate the form in the DNWS print catalog.

Col Phillip Layman
U.S. Air Force,
Commandant

Michael G. Conner
LCDR (Ret), U.S. Navy
Chief Operations Officer

Non-Attribution Policy

The Defense Nuclear Weapons School offers its assurances that presentations and discussions will be held in strict confidence. Without the expressed permission of the speaker, nothing will be attributed directly or indirectly in the presence of anyone who was not authorized to hear or view the presentation. Unclassified information gained during lectures, briefings, presentations, and discussions may be used freely. However, neither the speaker nor any element of the Defense Nuclear Weapons School may be identified as the originator of the information without consent.

General Information

Defense Nuclear Weapons School Field Training Sites

The Defense Nuclear Weapons School (DNWS), part of the Defense Threat Reduction Agency (DTRA), is located on Kirtland Air Force Base, Albuquerque, New Mexico. This DTRA school manages several radiological field-training sites at the base.

Description: The DNWS operates the Department of Defense's (DOD) only radiological training sites. These sites are thorium-seeded fields used in DNWS courses as integral field training for radiological emergency team members. DNWS instructors conduct a variety of radiological accident exercises at these training sites, providing a realistic environment for students to apply their classroom knowledge.

Students receive hands-on instruction and experience in the use of radioactivity monitoring instruments, the proper donning of personal protective equipment, and the collection of airborne radioactivity samples; in procedures for cleaning, inspecting, and proper wear of respirator protection; and in the setup and operation of a contamination control station. Students must integrate various modules of classroom instruction into intricate scenarios and determine what steps and equipment are required.

The DNWS partnered with the DTRA Technical Evaluation Assessment Monitor Site (TEAMS) Test Facility in developing the three-acre radiological exercise park. The park has two major components, a shipping container farm with integrated capability to seed radioactive sources in the soil and a temporary office building. Additional structures located within the site can be added as necessary to facilitate expanded exercise needs. This valuable teaching asset provides a flexible, realistic environment for search and characterization exercises.

Federal and State Accreditation

The Department of Homeland Security

The Department of Homeland Security has conducted a review , certified, and sponsored four of our courses. The courses have been added to the National Training and Education Division's standards catalog. Throughout the catalog, courses that contain the DHS Logo have the approval rating. This approval means that our students can use the DHS/FEMA grants to attend this courses.

The New Mexico Department of Public Safety

The New Mexico Department of Public Safety has reviewed several of our courses and has accredited these courses. These courses meet the requirements for Continuing Education Program (CEP) for First Responders.

Throughout the catalog, courses that contain the NM Department of Public Safety Logo have received the approval rating. This means that this courses are worth continuing education credit hours towards their yearly minimum requirement.

DNWS and College Credits

American Council on Education (ACE)

The American Council on Education's College Credit Recommendation Service (ACE CREDIT®) has evaluated and recommended college credit for nine DNWS courses. ACE, the major coordinating body for all of the nation's higher education institutions, seeks to provide leadership and a unifying voice on key higher education issues and to influence public policy through advocacy, research, and program initiatives. ACE CREDIT® connects workplace learning with colleges and universities by helping adults gain access to academic credit at colleges and universities for formal courses and examinations taken in the workplace or other settings outside traditional higher education.

The nine DNWS courses recommended for college credit are designated by the ACE logo on the respective course page. Additionally, the level of credit (undergraduate or graduate) and the number or recommended credit hours are listed.

For more than 30 years, colleges and universities have trusted ACE CREDIT® to provide reliable course equivalency information to facilitate their decisions to award academic credit. For more information, visit the ACE CREDIT® website at http://www.acenet.edu/acecredit.

For the benefit of its students, 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®. This service enables adult learners to present a nationally recognized transcript to the college or university of their choice for the potential award of academic credit. For more information, visit the ACE CREDIT® Transcript Service website at http://www.acenet.edu/higher-education/topics/Pages/Transcript-Services.aspx.

Joint Professional Military Education Credit

The Joint Staff Directorate for Joint Force Development (J7 JCW) recommends certain joint certified courses offered by DNWS for credit toward Joint Qualified Officer designation through the 'experience path' of the Joint Qualification System. Students in the grades of O-1 through O-6 may self-nominate their experiences and submit course certificates to https://www.dmdc.osd.mil/appj/jmis/JQSindex.jsp to request award of 'joint experience points,' where they will be reviewed by the proper administrative channels of their respective service branches to obtain JQS credit.

DNWS courses, recognized by JSJ7 JCW are identified by the Joint Staff logo on their course description page.

General Information

College and University Partnerships

Colorado Technical University

Colorado Technical University makes quality education flexible, accessible, and rewarding to active duty military, their spouses and veterans. Our Virtual Campus and 100 percent online associate's, bachelor's, master's, and doctoral degree programs are suited to the mobile military lifestyle.

CTU also offers extensive military education benefits, including a special tuition rate, waived application fee, a military-friendly deployment policy, and the university's Wounded Warrior Scholarship Program, which awards 50 full scholarships to Wounded Warriors and spouses of Wounded Warriors each year. Founded in 1965 in Colorado Springs, Colorado, CTU has a long military heritage serving students from Ft. Carson, Peterson AFB, the U.S. Air Force Academy, and Buckley AFB.

UMUC Forms New Education Alliance with Defense Threat Reduction Agency

University of Maryland University College (UMUC) is proud to announce a new alliance with the Defense Threat Reduction Agency (DTRA). Through this agreement, designated courses offered at the DTRA's Defense Threat Reduction University (DTRU) will be accepted for transfer credit by UMUC, allowing DTRU students to get a head start toward earning a UMUC associate's or bachelor's degree and achieving their career education goals.

UMUC is the largest public university in the United States and a global leader in adult education, providing high-quality academic programs to more than 1.5 million service members, veterans, and military family members since 1947. UMUC's career-relevant undergraduate and graduate degrees in such in-demand fields as cybersecurity, emergency management, and homeland security can help fulfill the educational objectives of DTRU and support DTRA's mission of safeguarding America and its allies from weapons of mass destruction by mitigating their threat and effect.

For more information about the DTRA–UMUC alliance and credit transfers, contact (240) 684-2308 or email christopher.palermo@umuc.edu. The Education Alliance between DTRA and UMUC does not constitute an endorsement by the U. S. Department of Defense, DTRA, or any entity of the U.S. Government.

Strayer University

Strayer University (www.strayer.edu) is committed to making education achievable for working adults. It serves students of diverse ethnic and racial backgrounds who seek an information technology, business-oriented education or criminal justice education. Strayer University seeks to develop its students personally and professionally, and strives to build a solid educational foundation conducive to the continued growth and lifelong success of its students.

Strayer University is accredited by the Middle States Commission on Higher Education, one of the six regional accrediting bodies in the United States. Strayer University is a member of Service members Opportunity Colleges (SOC) and participates in associates and bachelors degree programs for active duty military personnel. Strayer University is also a GoArmyEd, Navy College Program Distance Learning Partnership (NCPDLP), and Air University Associate-to-Baccalaureate Cooperative (AU ABC) school.

SUNY Empire State College

Empire State College, the nontraditional college of the SUNY system, educates more than 20,000 students worldwide at eight international sites, more than 35 locations in the state of New York, online, as well as face to face and through a blend of both, at the associate, bachelor's and master's levels. Most Empire State College students are working adults. Many are raising families and meeting civic commitments in the communities where they live, while studying part time. Working with their mentors, students design an individual degree program and engage in guided independent study and course work onsite, online or through a combination of both, which provides the flexibility for students to choose where, when and how to learn. For more information, call 800-837-3000 or visit www.esc.edu

Henley-Putnam University ™

Henley-Putnam University is pleased to be an education partner with DNWS, offering DNWS students an opportunity to study online to earn degrees or continue their educations through certificates or individual coursework. Henley-Putnam University is a leading educational institution serving professionals in the strategic security industry, especially within the law enforcement, military, and intelligence communities.

The University provides accredited online bachelor's and master's degrees in Intelligence Management, Terrorism and Counterterrorism Studies, and Strategic Security and Protection Management; a doctoral degree in Strategic Security; and several certificate programs. Individual courses are also offered in Spanish and Arabic.

For more information contact the Training Development Department at (505) 846-0660 or (505) 853-4258

General Information

Certification Programs

The DNWS offers a variety of training certification programs to prepare personnel to perform specific functions associated with nuclear weapons, incident response, incident command and control, and CBRN modeling.

These training certification programs are intended to raise professional standards and to recognize and document the achievement of those standards. In most cases, the certifications earned through the DNWS have no expiration date. Certification within a program attests to individuals' current and future organizations that they have demonstrated competency in a specific subject area related to a corresponding instructional department within the DNWS. Training certifications pertaining to specific organizations (such as Consequence Management Advisory Teams) are developed and managed in close coordination with the proponent organization and in accordance with their requirements.

Personnel who have completed the criteria for a certification program may apply for certification through the DNWS Registrar's Office. 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 Certification of Training in the applicable certification program.

The DNWS does not establish training or certification requirements for any organization external to the School. However, an increasing number of organizations accept DNWS certifications as evidence of professional competence and document completion of these certification programs in individual training records.

Nuclear Response Certification Programs

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

Applied Radiological Response Techniques (ARRT) Certificate:

- Chemical, Biological, Radiological, and Nuclear Baseline (CBRN-B) (distance learning)
- Applied Radiological Response Techniques Level 1 (ARRT 1) (distance learning)
- Applied Radiological Response Techniques Level 2 (ARRT 2)

Nuclear Emergency Team Operations (NETOPS) Certificate:

- Chemical, Biological, Radiological, and Nuclear Baseline (CBRN-B) (distance learning)

--plus--

- Nuclear Emergency Team Operations Primer (NETOPS Primer) (distance learning)

--or--

- Nuclear Emergency Team Orientation (NETOR) (MTT by request)

--plus--

- Nuclear Emergency Team Operations (NETOPS)

Advanced Incident Response Certificate:

- Applied Radiological Response Techniques (ARRT) Certificate
- Nuclear Emergency Team Operations (NETOPS) Certificate

Nuclear Weapons Certification Programs

The Nuclear Weapons Certification Programs are designed for personnel with responsibilities dealing with nuclear weapons, 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 within the nuclear weapons enterprise such as: nuclear weapons intelligence, nuclear weapons maintenance, nuclear weapons operations, and nuclear weapons security.

Basic Nuclear Weapons Certificate:

- Chemical, Biological, Radiological, and Nuclear Baseline (CBRN-B) (distance learning)

--or--

- Introduction to Radiological and Nuclear Incident Response (IRNIR)

--or--

- Countering Weapons of Mass Destruction Policy and Doctrine (CWMD-PD) (distance learning)

--plus--

- Nuclear Weapons Orientation Course (NWOC) (in residence or MTT)

Intermediate Nuclear Weapons Certificate:

- Basic Nuclear Weapons Certificate

--plus--

- Nuclear Policy Course (NUCPOL)

Advanced Nuclear Weapons Certificate--Operations:

- Intermediate Nuclear Weapons Certificate

--plus--

- Theater Nuclear Operations Course (TNOC) (in-residence or MTT)

Advanced Nuclear Weapons Certificate--Surety:

- Intermediate Nuclear Weapons Certificate

--plus--

- Joint DOD-DOE Nuclear Surety Executive Course (JNSEC)

Explosive Ordnance Disposal Weapons of Mass Destruction Certification

The EOD certification sequence is designed to develop the practical skills required for U.S. DOD EOD personnel to respond to a nuclear weapons accident part of the Initial Response Force (IRF) and perform Phase 0 requirements, 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 sequence supports and integrates into the overall whole-of-government accident/incident response structure. It is not intended to replace any EOD WMD training otherwise established by the individual services EOD training commands.

- Advanced Diagnostics Training 1 (ADT 1)

--plus--

- Advanced Diagnostics Training 2 (ADT 2)

--plus--

- Joint Nuclear Explosive Ordnance Disposal (JNEODC)

USAF Security Forces Nuclear Security Certification Training Program:

The USAF Security Forces (SF) Nuclear Security Certification Training Program (NSCTP) is designed for USAF SF personnel with responsibilities dealing with security of nuclear weapons. Level I certification is for SF nuclear security flight leadership such as flight chiefs, flight commanders, convoy commanders, flight security Officers, and similar personnel.

Level II certification is 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 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 Flight Nuclear Certification:

- DOD Nuclear Weapons Security Training (NWST) (distance learning)

Level II, USAF SF Group/Squadron Nuclear Certification

- Level I
  --plus--
- Nuclear Weapons Technical Inspections Course (NWTIC)

Level III, USAF SF Nuclear Policy Certification

- Level II
  --plus--
- Joint DOD-DOE Nuclear Surety Executive Course (JNSEC)

Incident Command and Control Certificate Program

The Incident Command and Control Certificate Programs are designed for personnel with command and control responsibilities in the event of an incident 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

- Countering Weapons of Mass Destruction Policy and Doctrine (CWMD-PD)
- Introduction to Radiological and Nuclear Incident Response (IRNIR)
- Nuclear Weapons Incident Response Training (NWIRT)

CBRN Modeling Certification Programs

The CBRN modeling certification sequences 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 Weapons of Mass Destruction Civil Support Teams (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

- Chemical, Biological, Radiological, and Nuclear Baseline (CBRN-B) (distance learning)
- Hazard Prediction and Assessment Capability Level 1 (HPAC-1)
- Hazard Prediction and Assessment Capability Level 2 (HPAC-2)

Consequence Assessment Tool Set (CATS) Certificate

- Chemical, Biological, Radiological, and Nuclear Baseline (CBRN-B) (distance learning)
- Geospatial Intelligence for Consequence Assessment (GICA)
- Consequence Assessment Tool Set (CATS)
- Intermediate Modeler Course (IMC)

Advanced CBRN Modeling Certificate

- Hazard Prediction and Assessment Capability (HPAC) Certificate
- Hazard Prediction and Assessment Capability 3 (HPAC-3)
- Consequence Assessment Tool Set (CATS) Certificate

DTRA CBRN Consequence Management Specialist Certification Programs

Basic and Advanced Consequence Management (CM) Advisory Team (CMAT) Specialist Certifications fulfill DTRA's requirement to field deployable CMATs. Senior and Master CBRN CM Specialist Certifications are designed to meet COCOM and other DOD organizations' requirements for increased CM expertise on DOD staffs and are open to all personnel both inside and outside of DTRA. For all credentialing requirements and application submission information for all CBRN CM Specialist Certifications, see the J3BPC website at www.dtra.mil.

Basic CMAT Specialist Certificate

- Hazard Prediction Assessment Capability (HPAC) Level 1
- Geospatial Intelligence for Consequence Assessment (GICA)
- Consequence Assessment Tool Set (CATS)
- Defense Support of Civil Authorities Phase I (DSCA-1)
- FEMA ICS-100
- FEMA IS-200b
- FEMA IS-700 NIMS
- FEMA IS-800B NRF
- CM Policy Overview (Provided by CMAT)
- Countering Weapons of Mass Destruction Policy and Doctrine (CWMD-PD) (distance learning)
- J3O P-US834, Department of State 101 Interagency Course
- J3S T-MN059-Fundamentals of CBRN Defense Course
- AFR -J7TNG-DL-APC001 APC 001: Joint Planning Overview 002
- IS-520 Introduction to Continuity of Operations Planning for Pandemic Influenzas
- Participation in a CMAT on One Exercise/Mission
- Participation in a CMAT Operations Course
- Complete ProCert (Proficiency Certification)

Advanced CMAT Specialist Certificate

- Defense Support of Civil Authorities Phase II (DSCA-2) Resident Course
  --or--
- FEMA Independent Study Courses (If applicant doesn't meet rank requirements for DSCA II enrollment)
- -- IS-230.a, Fundamentals of Emergency Management
- -- IS-701.a, NIMS Multiagency Coordination System (MACS)
  --plus--
- Multinational Crisis Management Course (NS M3-52) (One of these NATO courses may be taken in lieu of the DSCA II Course for CMAT personnel stationed in Europe.)
- NATO Civil Emergency Planning (CEP) Course (M9-56)
- J6S N-US273-Chemical, Biological, Radiological, Nuclear, and High-Yield Explosives Advanced Learning Education (CBRN-ALERT) Course
- J3O P-US094,The Interagency Process: Full Spectrum Implementation Presentation
- J3O P-US012, Joint Interagency Coordination Group (JIACG) Course
- J3O P-US251, Applied Radiological Response Techniques (ARRT) Course
- J3O P-US232, Senior Leader Course for Installation CBRN Defense Course
- J3O P-US262, Emergency Preparedness Response Course (EPRC)--Executive/Commander Course
- NNC-CONR-1006-L, Contingency Wartime Planning Course (CWPC)
- J3O P-US876, Planning (HOA 11) Course
- Any DOD recognized instructor's course/ASI
- Joint CWMD Planning Resident Course
- One year of CM professional experience
- Hands-On Training:
  -- Participate in a total of four exercises, deployments, and/or missions as a member of a CMAT in addition to the two needed for CMAT Basic Certification
  -- CMAT Basic Certification
  -- Complete ProCert (CMAT Proficiency Certification)

NOTE: Participation in a mission or instruction will be determined by the DTRA J3/BPCC (CMAT) Branch Chief. For information regarding the requirements for ProCert contact the CMAT training OIC in the DTRA J3/BPCC branch.

The Defense Nuclear Weapons School does not establish training or certification requirements for any organization external to the School. However, an increasing number of organizations accepts Defense Nuclear Weapons School certifications as evidence of professional competence and document completion of these certification programs in individual training records. This certification program is designed to establish educational and training criteria relevant to personnel who perform professional roles related to CBRN Modeling.

Senior CM Specialist Certificate

- Completion of two courses that maintain professional certification requirements related to a CM SME area
  --or--
- Completion of two courses within the last 36 months that complement a CM SME area

Experience:

- Conduct NBC/CM operations on four missions, exercises, or deployments
- Three years of experience in the field of emergency management, hazardous materials management or safety including responsibility for developing, implementing, directing and/or evaluating one or more related program activities

Education:

- Associate's or bachelor's in a field related to CM. (Board will consider three years' experience equivalent to one-year post-secondary civil education.)

Professional Development:

- Publish an article addressing CM related areas or give a presentation related to CM at a recognized conference, seminar, or course concerning DOD response to domestic crisis or foreign consequence management

Master CM Specialist Certificate

- Conduct NBC\CM operations on 10 missions, exercises, or deployments
- Five years' experience in the field of emergency management, hazardous materials management, or safety; including responsibility for developing, implementing, directing, and/or evaluating one or more related program activities
- Obtain minimum of four continuing education (CE) credits or complete a minimum of four courses related to development as a CM SME or professional development
- Publish two articles addressing CM related areas or give two presentations related to CM at recognized conferences, seminars, or courses concerning DOD response to domestic crisis or foreign consequence management
  --plus--
- Permanent certification: Obtain recognized CEM certification or hazardous material related certification
  --or--
- Advanced educational degree related to CM

NOTE: Previous training and experience from Military or other sources may be evaluated for relevancy to a CM Specialist level and for its currency. If the DTRA Training Coordinator determines that the previous training is acceptable as an equivalent to the training specified for the CMAT Level the Training Coordinator can recommend to the CSMO Branch Chief the acceptance of the training or experience for CMAT Specialist certification.

General Information

FY16 CLASS SCHEDULE

Nuclear Weapons - In Residence DNWS

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
AWOC		(30-	1)		(29-	1)			13-14		29-30	
JNSEC						23-24						
NCP-52										(11-	5)	
NUCPOL		16-20		25-29			4-8					
NWOC			7-11		8-12	7-11	18-22		6-10		22-26	26-30
TNOC					22-26						8-12	

Nuclear Response - In Residence DNWS

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
ADT-1	26-30				8-11	7-10		2-5		11-14	8-11	
ADT-2		2-6			15-19	14-18		9-13		18-22	15-19	
ARRT-2	19-23	16-20			(29-	4)	18-22		20-24		1-5	
ARRT-3				11-15			25-29		(27-	1)		
IRNIR			3-4			3-4			2-3			8-9
JNEODC		16-20			22-26	21-25		16-20		25-29	22-26	
NETOPS	(26-	6)	7-18	(25-	5)		4-15		6-17			19-30
NWIRT			15-17		2-5			17-19		19-21		

CBRN Modeling - In Residence DNWS

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
CATS	28-30		16-18		10-12				8-10	20-22	17-19	
GICA	26-27		14-15		8-9				6-7	18-19	15-16	
HPAC-1	19-23		7-11		1-5			23-27		11-15	8-12	
HPAC-2							18-22					12-16
HPAC-E												
IMC								16-20				19-23
JEM						7-11						
VAPO-1									13-17			
VAPO-2									20-23			

DNWS Hosted Courses

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
NWTIC	19-23		14-18		1-5	14-18	11-15	9-13	13-17	18-22	15-19	12-16

(-) denotes class carried over from one month to another

DNWS Mobile Training Teams

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
JNSEC												21,22
NWIRT												
NWOC		3-5		12-14				17-19	21-23			
TNOC								23-27				

HQ DTRA CBRNE M&S Training Center (Virginia)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
ASSIST						21-24						
CATS				27-29			6-8			20-22		21-23
GICA				25-26			4-5			18-19		19-20
HPAC-1		2-6		11-15		7-11		23-27		11-15	(29-	2)
HPAC-2	5-9				8-12						22-26	
IMC		(30-	4)		(29-	4)			6-10			
IMEA-1		16-20						9-13				12-16
IMEA-2							25-29				15-19	
IWMDT	26-30				22-26				20-24			
JEM									27-30			
VAPO-1			14-18				11-15			25-29		
VAPO-2				5-8			18-21					

NOTE: FOR MTT REQUESTS SEE PAGE 91

Note:
All dates in this catalog are subject to change.
For the most recent schedule please see the
schedule on DNWS website.
https://dnws.abq.dtra.mil
Website can only be accessed by networks on .mil or .gov domains

Nuclear Weapons Instructional Museum

American Alliance of Museums

The Defense Nuclear Weapons School (DNWS), part of the Defense Threat Reduction Agency (DTRA), is located on Kirtland Air Force Base, Albuquerque, New Mexico. This DTRA school manages and operates the only classified Nuclear Weapons Instructional Museum (NWIM) in the Department of Defense (DOD). The NWIM is a member of the American Alliance of Museums.

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 display affords 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 area where visitors may view a number of different weapon casings and a display of one-tenth scale foreign missile delivery systems.

(2) A classified area 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 paperwork in accordance with school policy. A DOD Secret security clearance with Restricted Data or Critical Nuclear Weapons Design Information access or a Department of Energy "Q" clearance is required to participate in an NWIM tour. To solicit a special tour of the NWIM, a written request must be submitted to and received a minimum of 15 working days before the scheduled tour date. Download a sample NWIM tour request letter or locate the form in the DNWS print catalog. Completed forms may be mailed or faxed to:

For all tours of the Nuclear Weapons Instructional Museum (NWIM), please contact the Nuclear Weapons Department Tour Coordinator at:
505-853-7809, or
FAX: 505-846-5560

Mailing Address:

1680 Texas St. SE
(Building 20362)
Kirtland AFB, NM 87117-5669

Email:

dtra.kirtland.J10.mbx.dnws-registrar@mail.mil

DISTANCE LEARNING

Trinity Virtual Tour (Trinity Tour)

Course Length

15 Minutes

Synopsis

Welcome to a virtual tour of Trinity Site. This tour is provided as a public service by the Defense Nuclear Weapons School in conjunction with the White Sands Missile Range Public Affairs Office. Trinity Site is where the first atomic device was tested at 5:29:45 a.m. Mountain War Time on July 16, 1945. The 19-kiloton explosion not only led to a quick end to the war in the Pacific but also ushered the world into the atomic age. All life on earth has been touched by the events that took place here. You are invited to take an online virtual tour of the history of the Manhattan Project, from its inception and birth at Los Alamos, New Mexico, to the detonation of the Trinity device at a remote site near White Sands, New Mexico. This tour chronicles, through original photographs, the history of the development, assembly, and testing of the first atomic nuclear weapon of its type. The tour provides you with a pictorial depiction of the destructive force of this new weapon. Modern photographs show the historic site today, including the remains of the tower that held the device; the McDonald Ranch, site of the final assembly of the critical components; and Jumbo, the massive, original container for the device.

Format

Distance Learning

Who Should Take This Course

Any military, government employee or government contractor interested in learning more about the history of the Trinity Site and its importance the United States nuclear weapons development program

Course Classification

Unclassified

Registration

Login to DNWS website (see registration section for more information)

Nuclear Weapons Instruction Museum Virtual Tour (NWIM Tour)

Synopsis

Located at the Defense Nuclear Weapons School on Kirtland Air Force Base, New Mexico, the Nuclear Weapons Instructional Museum (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.

This virtual tour provides an extensive online look at an unclassified portion of the tour. The tour features a number of different weapons casings, foreign missile delivery systems, the U.S. missile hallway at DNWS, and the Mr. Leon D. Smith Room featuring a history and replicas of the Little Boy and Fat Man nuclear weapons.

Format

Distance Learning.

Who Should Take This Course

Flag officers and senior executives responsible for nuclear-incident oversight.

Prerequisites

None.

Course Classification

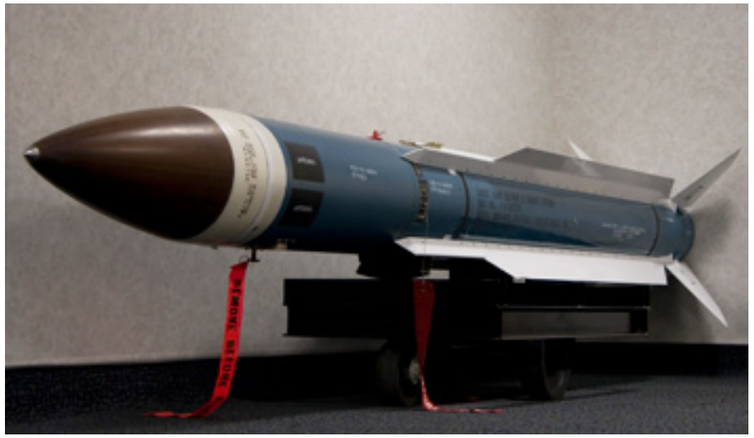
Unclassified

Registration

Login to DNWS website (see registration section for more information)

Course Length

15 Minutes



Chemical, Biological, Radiological, and Nuclear Baseline (CBRN-B)

(Formerly WMD-21)

Course Length

12 Hours

DNWS Course #

NR060DL

Synopsis

Chemical, Biological, Radiological, and Nuclear Baseline (CBRN-B) provides an overview of WMD threats and vulnerabilities to the U.S. in terms of homeland defense and DOD antiterrorism/force protection. This course introduces laws, plans, directives, policies, and guidance that affect DOD's role in CBRN response. This course is currently under revision; contact registrar for further information.

Objectives

- Provide an overview of WMD threats and vulnerabilities to the U.S. in terms of homeland defense and DOD antiterrorism/force protection
- Introduce laws, plans, directives, policies, and guidance that affect DOD's role in CBRN disaster response
- Compare roles and responsibilities of key government agencies responsible for WMD incidents
- Examine DOD roles in WMD incident response, homeland defense and command structures, integration with federal response agencies, and deployable DOD assets
- Understand the procedures to obtain DOD assets for WMD consequence management response
- Understand the medical response considerations for a WMD incident
- Understand the WMD decontamination process and planning considerations
- Become familiar with the operational aspects of a WMD incident

Format

Distance Learning.

Who Should Take the Course

Military or civilian personnel engaged in agency WMD requirements

Prerequisites

None.

Course Classification

Unclassified

Registration

Login to DNWS website (see registration section for more information)

DNWS Certification

This course is part of the DNWS Certification Program. See Certification Programs section for additional information.

Nuclear Emergency Team Operations Primer (NETOPS Primer)

Synopsis

Nuclear Emergency Team Operations Primer (NETOPS Primer) is a distance learning course that includes modules on biological effects of radiation and the response processes and capabilities, radiation detection equipment, contamination control stations, surveys, and command and control functions related to nuclear emergencies.

Objectives

- History of nuclear weapons accidents
- Basic nuclear physics
- Principles of nuclear weapons
- Terrorist use of radiological materials and their effects
- Types of radiation and their characteristics
- Radiation protection measures
- Radiological, biological, and effective half-lives
- Fission, fusion, and chain reactions
- Materials used in nuclear weapons
- Personal protective equipment
- Commonly used radiation detection, identification, and computation (RADIAC) kits
- Types of respiratory protection equipment and protective clothing
- Types of monitoring devices used in personnel protection
- Site characterization and survey plotting
- CCS site selection factors and decontamination concepts
- Airborne radiation sampling
- The role of Explosive Ordnance Disposal (EOD) team
- U.S. National Policy, DOD Directives, and the National Response Framework
- Response phases of a nuclear weapons accident
- Initial Response Force (IRF) and Response Task Force (RTF) Responsibilites, CONUS/OCONUS
- National Defense/Security Areas
- Homeland Security Presidential Directive 5 (HSPD-5)

Format

Distance Learning.

Who Should Take This Course

Military personnel and Federal employees occupying EOD, NBC defense specialties and career fields, or other emergency response force positions. Also a prerequisite for personnel expecting to attend NETOPS in residence (NAIR101).

Prerequisites

None.

Course Classification

Unclassified

Registration

Login to DNWS website (see registration section for more information)

DNWS Certification

This course is part of the DNWS Certification Program. See Certification Programs section for additional information.

USA Course ID

DNWS-R008 (DL)

USAF Course ID

J6OZD32E3G00DA

Course Length

40 Hours

DNWS Course #

NR101DL

Distance Learning

DOD Personnel Reliability Program (PRP)

Course Length

12 Hours

DNWS Course #

NW101DL

Synopsis

The DOD Personnel Reliability Program (PRP) course is designed to introduce baseline DOD PRP fundamentals and concepts to personnel who are assigned duty involving nuclear weapons or nuclear command and control systems. The course addresses PRP concepts, roles, responsibilities, and processes in support of nuclear surety and further explains these concepts in relationship to real-world scenarios.

Objectives

The course is organized into three modules:

- Module 1 covers basic DOD PRP authorities and guidance, the roles and responsibilities of key figures in the program, and a basic framework on the what of the PRP.
- Module 2 is an explanation of the role of the medical community in the PRP, including medical evaluations, legal aspects, potentially disqualifying information, and competent medical authority functions.
- Module 3 is a practical guide to administering the PRP at the unit level and walking through the program and its processes in greater detail than found in module 1; provides an understanding of how the PRP works.

Format

Distance Learning.

Who Should Take This Course

PRP monitors, Certifying Officials, Competent Medical Authorities and Reviewing Officials.

Prerequisites

None.

Course Classification

Unclassified

Registration

Login to DNWS website (see registration section for more information)

Countering Weapons of Mass Destruction Policy and Doctrine (CWMD-PD)

(Formerly WMDC3)

Synopsis

Countering Weapons of Mass Destruction Policy and Doctrine (CWMD-PD) is a distance learning course covering the spectrum of WMD threats from terrorist motivation to employ CBRN through coordination of effective response within the National Response Framework (NRF) and National Incident Management System (NIMS).

Objectives

- Provide an overview of current WMD threats and vulnerabilities to the U.S. in terms of Federal homeland defense and DOD anti-terrorism/force protection
- Introduce and detail the Federal plans and DOD directives, policies, and guidance that affect DODs role in CBRN response
- Compare roles and responsibilities of government agencies in mitigating WMD incidents
- Understand procedures for requesting DOD WMD response assets for application in a WMD consequence management response
- Provide tools to installation commanders and Federal-agency executives for requesting and applying DOD response assets into their local plans

Format

Distance Learning.

Who Should Take This Course

Commanders and their support staff and Federal, state, and local authorities who have decision making responsibilities during WMD incidents.

Prerequisites

None.

Course Classification

Unclassified

Registration

Login to DNWS website (see registration section for more information)

DNWS Certification

This course is part of the DNWS Certification Program. See Certification Programs section for additional information.

USAF Course ID

J5OZD32E1D04DA

USA Course ID

DNWS-RO16

Course Length

40 Hours

DNWS Course #

NR102DL

Distance Learning

Nuclear Safety Studies and Review (NSSR)

Course Length

4 Hours

DNWS Course #

NW103DL

Synopsis

This course is designed to introduce basic concepts and principles related to nuclear safety studies and reviews to 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.

Objectives

The course is organized into four modules:

- Module One defines nuclear safety studies and reviews and traces the origin of nuclear studies and reviews requirements.
- Module Two traces the origins of the joint DOD-DOE nuclear weapon life cycle and examines the seven phases that comprise it.
- Module Three concentrates on the nuclear safety studies and reviews process; it examines the composition and responsibilities of the Nuclear Weapons System Safety Group, defines the different types of studies and reviews conducted by the group, and concludes with an examination of studies and reviews procedures.
- Module Four explains the various nuclear weapon system safety assessments and why they are conducted.

Format

Distance Learning.

Who Should Take This Course

The information in this course can be useful to all levels of supervision, but is developed primarily for newly assigned action officers supporting a Nuclear Weapons System Safety Group position.

Prerequisites

None.

Course Classification

Unclassified

Registration

Login to DNWS website (see registration section for more information)

Nuclear Weapons Surety (NWS)

Synopsis

This course is designed to introduce basic concepts and principles related to nuclear surety to professionals supporting the nuclear weapons enterprise. The goal is to explain these concepts to a level that enables clear understanding of what nuclear surety is and how nuclear surety is achieved.

Objectives

The course is organized into eight modules:

- Module One explains the concept of nuclear surety and traces the origin of nuclear surety requirements.
- Module Two examines the various elements involved in the nuclear weapon system safety certification process.These include personnel, organizational, procedural, equipment, and system certification.
- Module Three focuses on the intent and management of the DOD Personnel Reliability Program (PRP).
- Module Four examines the various processes involved in nuclear weapons accountability.
- Module Five examines the requirements and agencies involved in the Nuclear Weapons Technical Inspection process.
- Module Six examines Nuclear Weapon Security concepts and capabilities.
- Module Seven examines Nuclear Weapon Control Measures. It is comprised of two units. Unit 1 focuses on Use Control, the set of positive measures designed to prevent or delay the unauthorized use of nuclear weapons. Unit 2 explores Nuclear Command and Control, the various procedures and capabilities which provide the means for Presidential authority to employ a nuclear weapon.
- Module Eight focuses on the Non-Nuclear Assurance Program.

Format

Distance Learning.

Who Should Take This Course

The information in this course can be useful to all levels of supervision, but is developed primarily for front-line supervisors supporting the nuclear weapons enterprise.

Prerequisites

None.

Course Classification

Unclassified

Registration

Login to DNWS website (see registration section for more information)

Course Length

8 Hours

DNWS Course #

NW104DL

Distance Learning

Distance Learning

Basic Scientific Calculator Skills (SciCal-101)

Course Length

2 Hours

DNWS Course #

NR080DL

Synopsis

Students of the Defense Nuclear Weapons School (DNWS) are expected to use the advanced functions of a scientific calculator in several classes, including Applied Radiological Response Techniques (ARRT), levels 1, 2, and 3. This course, Basic Scientific Calculator Skills (SciCal-101), is now a prerequisite to ARRT-1. Passing this course test satisfies the prerequisite for ARRT-1.

Objectives

By the end of this course students will demonstrate their ability to use eight advanced functions of a scientific calculator by performing calculations during the course test. Students will need their own scientific calculator to complete the course.

- **Module 1**, Describing and Demonstrating Calculator Functions, describes and demonstrates four standard functions and eight more advanced functions of a scientific calculator. During the demonstrations students will identify each function key, locate it on their calculator, and perform simple calculations using each key.
- **Module 2**, Practicing Calculator Functions, demonstrates additional calculations using the eight advanced functions. Students will practice those calculations on their calculator as they are demonstrated.
- **Module 3**, Testing Your Calculator Skills, tests student ability to perform calculations using the eight advanced functions learned and practiced in Modules 1 and 2. Students will solve the test problems on their calculator and type the answers into the test screen.

Passing score for this test is 85 percent.

Format

Distance Learning

Who Should Take This Course

Students must take Basic Scientific Calculator Skills prior to ARRT-1. Students of other DNWS classes including Nuclear Emergency Team Operations/Orientation (NETOPS) will benefit from this course.

Prerequisites

None.

Course Classification

Unclassified

Registration

Login to DNWS website (see registration section for more information)

Applied Radiological Response Techniques Level 1 (ARRT-1)

Synopsis

Applied Radiological Response Techniques Level 1 (ARRT-1) is an introductory distance learning course for response technicians wishing to obtain the basic knowledge behind technical radiological response actions and decisions. This course will provide basic concepts of radiological science, identify aspects of radiation instrumentation theory, and identify concepts of radiation exposure and contamination control actions. Radiation surveys and Federal regulations and planning reports are also presented.

Objectives

- Survey concepts of radiological science
- Identify aspects of radiation instrumentation theory to practical applications
- Identify basic concepts of radiation exposure and contamination control actions
- Select applicable Federal regulations relating to radiation exposures
- Identify the elements of planning a radiation survey
- Identify the elements of presenting reports based on regulatory requirements

Format

Distance Learning.

Who Should Take This Course

Response technicians wishing to obtain the basic knowledge behind technical radiological response actions and decisions. Personnel should complete ARRT-1 prior to enrolling in ARRT-2.

Prerequisites

Basic Scientific Calculator Skills.

Course Classification

Unclassified

Registration

Login to DNWS website (see registration section for more information)

DNWS Certification

This course is part of the DNWS Certification Program. See Certification Programs section for additional information.

USA Course ID

DNWS-RO27

DHS Course ID

DOD-013-RESP

Course Length

40 Hours

DNWS Course #

NR200DL

Only in conjunction
with ARRT-2
Lower Division
Undergraduate
2 Credit Hours

Distance Learning

Joint Nuclear Weapons Publications System (JNWPS)

Course Length

4 Hours

DNWS Course #

NW105DL

Synopsis

This course introduces basic concepts and principles related to the Joint Nuclear Weapons Publication System (JNWPS) to professionals supporting the nuclear weapons enterprise. The course goal is to provide clear understanding of the JNWPS and why it exists.

Objectives

The course is organized into three modules:

- Module One explains what the JNWPS is and traces the origin of JNWPS requirements.
- Module Two explains processes and controls involved in JNWPS administration and management.
- Module Three builds upon the first two modules and discusses how to use and access JNWPS Technical Publications; it also explains how to utilize the JNWPS Numerical Index.

Format

Distance Learning.

Who Should Take This Course

The information in this course can be useful to all levels of supervision, but is developed primarily for first-line supervisors supporting the nuclear weapons enterprise.

Prerequisites

None.

Course Classification

Unclassified

Registration

Login to DNWS website (see registration section for more information)

DOD Nuclear Weapons Security (NWST)

Synopsis

The Nuclear Weapons Security Training course (NWST) is designed to introduce the baseline Department of Defense (DOD) nuclear security concepts and strategy framework to security professionals assigned to protect the nation's nuclear force. It addresses nuclear security concepts common to all DOD nuclear weapons and further explains these concepts relative to the various environments where nuclear weapons are stored, maintained, and operated within DOD.

Objectives

- Module One covers basic security standards and requirements applicable to all nuclear weapons regardless of their operational, maintenance, storage, or transportation environment.
- Module Two outlines the DOD nuclear weapon security policy and planning framework.
- Module Three builds upon the first two modules and explains the basic requirements as they are applied in individual nuclear weapon environments.
- Module Four explores nuclear weapon security supporting programs and concepts.

Format

Distance Learning.

Who Should Take This Course

Security professionals assigned to protect the nation's nuclear force.

Prerequisites

None.

Course Classification

Unclassified

Registration

Login to DNWS website (see registration section for more information)

DNWS Certification

This course is part of the DNWS Certification Program. See Certification Programs section for additional information.

Course Length

40 Hours

DNWS Course #

NW100DL

NUCLEAR WEAPONS

U.S. Army Nuclear and Counter-Proliferation Officer Course (NCP-52)

Synopsis

The Nuclear and Counterproliferation Officer Course (NCP-52) is presented annually at the DNWS by the U.S. Army Nuclear and CWMD Agency (USANCA). The training is limited to U.S. Army officers and serves as the Nuclear and Counterproliferation Officers Functional Area (FA 52) qualifying course. Topics include developing and revising COCOM-level orders, understanding the U.S. nuclear weapons program from inception to present, DOD Homeland Defense organization and doctrine, CBRN overview, critical-site tours, and current FA 52 career field information. For specific information relating to NCP-52, contact USANCA at (703) 806-7866 or DSN 656-7866. Also read ALARACT 129/2014 for specific travel guidance.

Objectives

- Develop baseline skills for new Army career field FA 52 officers
- Identify key aspects and programs of U.S. counterproliferation efforts
- Expose officers to the U.S. Nuclear Weapon Program
- Provide historical perspective on the U.S. nuclear weapons stockpile
- Identify key elements of nuclear surety
- Generate awareness for emerging U.S. homeland defense issues and doctrine
- Discuss current WMD issues

Format

Facilitated discussions and lectures supported by video presentations, weapons cutaways, site surveys, and an NWIM tour at the SECRET//RESTRICTED DATA-CNWDI level.

Who Should Take This Course

Newly assigned Army FA 52 career field officers in the grades O-3 to O-5.

Prerequisites

Must complete the following Distance Learning Courses provided by Defense Nuclear Weapons School. Basic Scientific Calculator Skills (SciCal-101) (Calculator), Applied Radiological Response Techniques Level 1 (ARRT-1), Nuclear Emergency Team Operations Primer (NETOPS Primer) and Chemical, Biological, Radiological, and Nuclear Baseline (CBRN-B).

Course Classification

SECRET//RESTRICTED DATA-CNWDI

Security Requirements

DOD Secret with CNWDI or DOE 'Q'

Registration

Registration is through USANCA at (703) 806-7866 or DSN 656-7866.

Appropriate Dress

Military: As directed by individual's service.
Civilians: Business Casual.

USA Course ID

DNWS-NROOC

USN Course ID

S-140-0007

Course Length

22 Days; 176 Hours

DNWS Course

NW450

Scheduled Dates:

11 Jul - 5 Aug 16

Nuclear Weapons

Nuclear Weapons Orientation Course (NWOC)

Course Length
4.5 Days; 36 Hours
MTT Length 3 Days; 24 Hours

DNWS Course #
NW110 and
NW110M

Scheduled Dates:
7 - 11 Dec 15
8 - 12 Feb 16
7 - 11 Mar 16
18 - 22 Apr 16
6 - 10 Jun 16
22 - 26 Aug 16
26 - 30 Sep 16

MTT
3 - 5 Nov 15
12 - 14 Jan 16
17 - 19 May 16
21 - 23 Jun 16

ACE CREDIT American Council on Education College Credit Recommendation Service

Lower Division
Undergraduate
2 Credit Hours

Joint Certified in accordance with CJCSM 3500.03D

Synopsis

The Nuclear Weapons Orientation Course (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. The modules focus on four functional areas: nuclear weapon fundamentals, nuclear weapon effects, nuclear weapons stockpile, and nuclear weapons issues. The course can be taught at the customer's location as a Mobile Training Team course (NWOC, NW110M).

Objectives

- Define the scope of the national nuclear weapons program
- Recall basic nuclear physics and materials
- List key elements of nuclear surety
- Recall development, testing, command and control, and weapons effects from stockpiled nuclear weapons
- Name international agreements concerning nuclear weapons
- Discuss current nuclear weapons issues

Format

Facilitated discussions and lectures supported by video presentations, and an NWIM tour at the SECRET//RESTRICTED DATA level. The NWIM tour will not be conducted at the CNWDI level during NWOC.

Who Should Take This Course

Military personel and government civilians (GS-7 and above) who require knowledge of the national nuclear weapons program.

Prerequisites

None.

Course Classification

SECRET//RESTRICTED DATA

Security Requirements

DOD Secret with Restricted Data or DOE 'Q'

Registration

Login to DNWS website (see registration section for more information)

Appropriate Dress

Military: As directed by individual's service.
Civilians: Business Casual.

DNWS Certification

This course is part of the DNWS Certification Program. See Certification Programs section for additional information.

USA Course ID

DNWS-ROO1

USAF Course ID

JBOZD21A1A00DA

USMC Course ID

FO4EGP1

USN Course ID

S-140-0001

MTT Capable

Funding for MTT instructors' travel is paid for by the requesting organization

Advanced Weapons Operators Course (AWOC)

Synopsis

The Advanced Weapons Operators Course (AWOC) a is a two-day course that covers nuclear weapons design and effects, the evolution of nuclear policy, and the nuclear enterprise. The purpose of the course is to assist the nuclear weapons community of operators and enhance their understanding of the nuclear triad and deterrence and the U.S. Nuclear Enterprise.

Objectives

- Understand significance of the Manhattan Project and the conclusion of WWII
- Describe the evolution of nuclear deterrence
- Recall nuclear physics and materials
- Understand nuclear weapons effects
- Name international agreements concerning nuclear weapons
- Discuss current nuclear weapons issues

Format

Facilitated discussions and lectures supported by an NWIM tour at the SECRET//RESTRICTED DATA-CNWDI level

Who Should Take This Course

Military officers and government civilians who require knowledge of the national nuclear weapons program. Senior personnel (06 & above) should consider taking the JNSEC. (See page 36)

Prerequisites

Recommend NWOC

Course Classification

SECRET//RESTRICTED DATA-CNWDI

Security Requirements

DOD Secret with CNWDI or DOE 'Q'

Registration

Login to DNWS website (see registration section for more information)

Appropriate Dress

Military: As directed by individual's service.
Civilians: Business Casual.

USN Course ID

S-140-0002

Course Length
2 Days; 16 Hours

DNWS Course #
NW112

Scheduled Dates:
30 Nov - 1 Dec 15
29 Feb - 1 Mar 16
13 - 14 Jun 16
29 - 30 Aug 16

Nuclear Weapons

Joint DOD-DOE Nuclear Surety Executive Course (JNSEC)

Course Length

NM: 2 Days;16 Hours

MTT: 1 Day; 8 Hours

DNWS Course #

NW201 and

NW201M

Scheduled Dates:

23 - 24 Mar 16

MTT

21 Sep 16

22 Sep 16

Synopsis

The Joint DOD-DOE Nuclear Surety Executive Course (JNSEC) is an executive-level program offering an overview of safety, security, and control aspects of the U.S. nuclear weapons program. JNSEC is a 1-day program conducted twice in the Washington D.C. area, and a second iteration is a 2-day version offered at the DNWS to accommodate a Nuclear Weapons Instructional Museum tour. Instructors are from the DOD and DOE.

Objectives

Provide an overview of the nuclear weapons surety environment to include the functional areas of safety, security, and control as well as the U.S. nuclear stockpile and stockpile processes.

Format

Facilitated discussions and lectures supported by an NWIM tour at the SECRET//RESTRICTED DATA-CNWDI level)

Who Should Take This Course

Senior military and Federal employees new to the NW enterprise who have nuclear weapons responsibilities.

Prerequisites

None.

Course Classification

SECRET//RESTRICTED DATA-CNWDI

Security Requirements

DOD Secret with CNWDI or DOE 'Q'

Registration

Registration forms must be received by the registrar a minimum of 15 working days before the class start date. JNSEC is also offered twice in the Washington DC area. Registration procedures for these iterations will be explained in the invitation package.

Appropriate Dress

Military: As directed by individual's service.

Civilians: Business Casual.

DNWS Certification

This course is part of the DNWS Certification Program. See Certification Programs section for additional information.

USAF Course ID

JBOZD32E1DOODA

USN Course ID

S-140-0003

Joint Certified in accordance with CJCSM 3500.03D

Theater Nuclear Operations Course (TNOC)

Synopsis

The Theater Nuclear Operations Course (TNOC) is a 4.5-day course that provides training for planners, support staff, targeteers, and staff nuclear planners for joint operations and targeting. The course provides an overview of nuclear weapon design, capabilities, and effects as well as U.S. nuclear policy, and joint nuclear doctrine. TNOC meets U.S. Army qualification requirements for the additional skill identifier 5H.

Objectives

- Understand both U.S. and NATO Nuclear Policy
- Understand the U.S. nuclear planning and execution process
- Be familiar with nuclear command and control system, nuclear safety, and nuclear surety
- Understand the targeting effects of nuclear weapon employment
- Be familiar with the U.S. nuclear weapons stockpile and associated delivery systems
- Understand the USSTRATCOM nuclear planning process and associated tools
- Integrate nuclear weapon employment into conventional plans and operations
- Apply the Theater Nuclear Planning process as part of an end-of-course exercise

Format

NWIM tour at the SECRET//RESTRICTED DATA level. The NWIM tour will not be conducted at the CNWDI level during TNOC

Who Should Take This Course

Military and Federal employees who are theater-level planners, support staff, targeteers, and nuclear staff planners (through O-5) and GS equivalent.

Prerequisites

None

Course Classification

TOP SECRET//RESTRICTED DATA

Security Requirements

DOD Top Secret with Restricted Data or DOE 'Q'

Registration

Login to DNWS website (see registration section for more information)

Appropriate Dress

Military: As directed by individual's service.
Civilians: Business Casual.

DNWS Certification

This course is part of the DNWS Certification Program. See Certification Programs section for addition information.

USAF Course ID

J5OZD13B404DA

USA Course ID

DNWS-RO13

USN Course ID

S-140-0004

MTT Capable

Funding for MTT instructors' travel is paid for by the requesting organization

Course Length

4.5 Days; 36 Hours

DNWS Course #

NW305 and

NW305M

Scheduled Dates:

22 -26 Feb 16

8 - 12 Aug 16

MTT

23 - 27 May 16

Joint Certified in accordance with CJCSM 3500.03D

Nuclear Weapons

Nuclear Weapons

Nuclear Policy (NUCPOL)

Course Length

5 Days; 40 Hours

DNWS Course #

NW401 and NW501

Scheduled Dates:

16 - 20 Nov 15

25 - 29 Jan 16

4 - 8 Apr 16

American Council on Education ACE CREDIT College Credit Recommendation Service

Upper Division Undergraduate 2 Credit Hours or Graduate 2 Credit Hours

Joint Certified in accordance with CJCSM 3500.03D

Synopsis

This course is 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 classified Nuclear Weapons Instructional Museum is also included.

Objectives

- Understand the development of current nuclear policy
- Describe the evolution of nuclear deterrence
- Discuss the role of nuclear weapons as they relate to the instruments of national power
- Discuss the relationship of arms control methods and U.S. nuclear policy
- Explain the interplay of the North Atlantic Treaty Organization s nuclear policy with U.S. nuclear policy
- Describe how foreign nuclear weapons programs affect U.S. nuclear policy
- Discuss ancillary influences on U.S. nuclear policy

Format

Facilitated discussions and lectures supported by video presentations and an NWIM tour at the SECRET//RESTRICTED DATA level. The NWIM tour will not be conducted at the CNWDI level during NucPol

Who Should Take This Course

Military and Federal civilians with a position involving nuclear policy or the national nuclear weapons program.

Prerequisites

None.

Course Classification

SECRET//RESTRICTED DATA

Security Requirements

DOD Secret with Restricted Data or DOE 'Q'

Registration

Login to DNWS website (see registration section for more information)

Appropriate Dress

Military: As directed by the individual's service. Civilians: Business casual.

DNWS Certification

This course is part of the DNWS Certification Program. See Certification Programs section for additional information.

USN Course ID

S-140-0005
S-140-0006

DEFENSE NUCLEAR WEAPONS SCHOOL • ALBUQUERQUE NEW MEXICO

NUCLEAR RESPONSE

Nuclear Response

Nuclear Emergency Team Operations (NETOPS)

Course Length
10 Days; 80 Hours

DNWS Course #
NR101 and
NR101M

Scheduled Dates:
26 Oct - 6 Nov 15
7 - 18 Dec 15
25 Jan - 5 Feb 16
4 - 15 Apr 16
6 -17 Jun 16
19 -30 Sep 16

Lower Division
Undergraduate
2 Credit Hours
and
Upper Division
Undergraduate
4 Credit Hours

Joint Certified
in accordance
with CJCSM
3500.03D

Synopsis

Nuclear Emergency Team Operations (NETOPS) is a 10-day course that offers hands-on training for members of a nuclear emergency response team. Subject matter includes modules 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 daily field training exercises during which students fully dress out in anti-contamination clothing, use RADIAC equipment, and perform realistic nuclear emergency team functions at DNWS' live radioactive training sites.

Objectives

- Demonstrate an understanding of basic nuclear physics, biological effects, and protection
- Identify potential hazards and explain personal protection applications
- Describe national response plans and the requirement for a military response
- Demonstrate use of radioactivity monitoring instruments
- Explain radiation dosimetry and the use of a dosimeter
- Collect radioactive airborne samples
- Demonstrate accident patterns and plotting
- Properly don anti-contamination clothing
- Set up and operate a contamination control station

Format

Facilitated discussions, lectures supported by video presentations, and group field exercises.

Who Should Take This Course

Military personnel and Federal employees occupying EOD, CBRN defense specialties and career fields, or other emergency response force positions.

Prerequisites

Completion of Nuclear Emergency Team Operations Primer (NETOPS Primer) distance learning course. Click here to register for NETOPS Primer. This course will provide you with a solid overview of the NETOPS course and prepare you for the daily quizzes and the final exam.

Course Classification

Unclassified

Special Medical Requirements

Civilian attendees: IAW Sections 1 and 2, Part A of Appendix C, 29 CFR 1910.134(e) apply, which require proof that the registrant has been medically evaluated and cleared by a licensed physician (board certified internal or occupational health) to wear a full-face, negative pressure, air purifying respirator (i.e. M50/JSGPM protective mask). Civilians must provide certification of medical clearance to the course manager on the first day of class. Note: If you are a prior heat or cold casualty, please notify the course manager prior to the first field exercise.

Appropriate Dress

Military: Service specific utility uniform. Civilians: Business casual. NOTE: During the field training exercises, you are allowed to wear your service specific physical training (PT) gear. Civilians are allowed to wear appropriate physical training gear as well. On the last day of class, you will visit the The National Museum of Nuclear Science & History which is located off base. Civilian clothing is authorized however, please ensure the clothing conforms to acceptable standards (i.e. slacks/jeans and polo/sleeved shirts.)

Equipment

During the field training exercises, you will wear the JSGPM/M-50 protective mask. If your unit has issued you an M-50 protective mask, it would be advantageous to bring it with you so that you can train on your equipment. If you have been issued eyeglass inserts for the M-50 protective mask, bring them with you as you will need them during the field exercises. Several modules, including the field exercises, are conducted outdoors; therefore: From 1 Nov thru 31 Mar, all students reporting for NETOPS, both military and civilian, will bring the following cold weather gear:

Parka
- Service specific fleece or Gortex style for military personnel
- Fleece or appropriate outerwear for civilians

Thermal Undergarments
- Service specific for military personnel
- Conservative appropriate attire for civilians

Knit Caps
- Service specific for military personnel
- Conservative appropriate attire for civilians

Gloves
- Service specific for military personnel
- Conservative appropriate attire for civilians

Albuquerque averages over 275 days per year of sunny days and 76 percent of the available sunlight; therefore, sunglasses and sunscreen are highly encouraged year round.

Registration

Login to DNWS website (see registration section for more information)

MTT Capable

The Nuclear Emergency Team Orientation (NETOR) is the MTT version of the NETOPS. The NETOR curriculum mirrors the first four days of NETOPS and includes a small scale field exercise on the fifth day of training. Attending a NETOR course does not count the same as attending the full two-week NETOPS course due to the lack of field training.
For schedeulling and funding requirements, contact the DNWS Registrar office at (505) 846-5666 or DNS 246:5666. Email questions to dtra.kirtland.j10.mbx.dnws-registrar@mail.mil

USAF Course ID

J5OZD32E3G00DA

USA Course ID

DNWS-RO38

USMC Course ID

F045781

USN Course ID

S-140-0009

DHS Course ID

DOD-012-RESP

DNWS Certification

This course is part of the DNWS Certification Program. See Certification Programs section for additional information.

Nuclear Response

Joint Nuclear Explosive Ordnance Disposal (JNEODC)

Course Length

5 Days; 40 Hours

DNWS Course #

NR250

Scheduled Dates:

16 - 20 Nov 15
22 - 26 Feb 16
21 - 25 Mar 16
16 - 20 May 16
25 -29 Jul 16
22 - 26 Aug 16

Synopsis

Joint Nuclear Explosive Ordnance Disposal Course (JNEODC) is a five-day training evolution that provides detailed sustainment training for EOD technicians when responding to nuclear weapons accidents as part of the initial response force. The program focuses on nuclear weapons hazards, stockpile safety features and safeguards, weapons development, and response to a nuclear weapon accident/incident.

Objectives

- Describe active stockpile weapons and associated delivery systems
- Identify hazardous and classified active/inactive stockpile weapon components
- Identify DOD, DOE, and EOD roles and responsibilities during a stockpile accident
- Describe basic nuclear physics, biological effects, and protection from radiation exposure
- Demonstrate setup and operation of an emergency contamination control station, use of radiation-monitoring equipment, and proper don and doff of anti-contamination clothing
- Demonstrate EOD operations as a function of the IRF

Format

Lectures, facilitated discussions, weapon cutaways, written and practical testing in a field environment, and to an NWIM tour at the SECRET//RESTRICTED DATA-CNWDI level.

Who Should Take This Course

DOD Explosive Ordnance Disposal officers and technicians

Prerequisites

Naval School Explosive Ordnance Disposal. Review JNWPS 60-1, 60-6, 20-7, 20-11, 20-11A. Understand 60-0 and 60A-1-1-11-7. Completion of ARRT-1 distance learning is highly recommended prior to attending.

Course Classification

SECRET//RESTRICTED DATA-CNWDI

Security Requirements

DOD SECRET//RESTRICTED DATA-CNWDI clearance. Deadline for registration is 21 days prior to the class convene date. Due to Sandia National Labs badge access policy, please submit your DOE Form 5631.20 directly to the DNWS Registrar NLT two weeks PRIOR to your course start date. You may submit your form via email to dtra.kirtland.j10.mbx.dnws-registrar@mail.mil or by fax to (505) 846-9168 or DSN 246-9168. If you have any questions, please contact the DNWS Registrar office at (505) 846-5666 or DNS 246:5666. Email questions to dtra.kirtland.j10.mbx.dnws-registrar@mail.mil

Registration

Login to DNWS website (see registration section for more information)

Special Medical Requirements

Must be able to wear a full-face, negative-pressure, air-purifying respirator.

Appropriate Dress

Military: ACUs, ABUs, or Utility Uniform. Service-specific PT gear is recommended for field exercises. Students who wear eye glasses should bring optical inserts for M50/JSGPM series masks. Students are encouraged to bring their own service-issued field protective mask and operations checklists. Portions of the class are administered outdoors. Bring appropriate inclement weather clothing. DNWS recommends that personnel bring appropriate official radiation dosimetry (i.e. TLD). DNWS can provide supplemental dosimetry to any attendee.

USAF Course ID

J5az03E87100DA

USA Course ID

DNWS-R006

USN Course ID

S-140-0011

USMC Course ID

F04L2Y1

Advanced Diagnostics Training 1 (ADT-1)

Synopsis

Advanced Diagnostics Training I (ADT I) is an unclassified (four-days for EOD and five-days for SOCOM members) course of instruction that focuses on WMD threat awareness, interagency policy, national response architecture, nuclear science, radiation detector theory, and crisis communications. This course meets interagency training standards for national crisis response.

Objectives

- Introduce national crisis response policy.
- Introduce FBI crisis response program.
- Introduce DOE crisis response program.
- Introduce atomic structure principles.
- Introduce principles of radioactivity and radioactive decay.
- Introduce principles of radiation interaction with matter.
- Introduce radiological units of measurement.
- Introduce biological effects of ionizing radiation.
- Introduce Operational Exposure Guidance.
- Introduce radiation detection theory.
- Introduce gamma spectroscopy and identification of radioactive isotopes.
- Introduce radiation detection equipment operations.
- Introduce Nuclear Materials of Cocern.
- Introduce Principles of Nuclear Explosions.

Format

Lectures, facilitated discussions, individual technical hands-on classes, and group technical hands-on classes.

Who Should Take This Course

Title 10, 18 and 32 Technical Responders assigned as an Explosive Ordnance Disposal, Bomb Technicians and/or members assigned to Special Operations Command whose steady-state operations require an awareness of Nuclear Materials of Concern (NMOC).

Prerequisites

Must be a graduate of either Naval Explosive Ordnance Disposal School, Hazardous Devices School, be a member of the Interagency Render Safe Enterprise or be assigned to a Special Operations Command.

Course Classification

Unclassified//For Official Use Only

Security Requirements

None. Deadline for registration is 21 days prior to the class convene date.

Registration

Login to DNWS Site and click on applicable date located below for class registration.

Appropriate Dress

ACUs, ABUs, or Utility Uniform.
Portions of the class are administered outdoors. Appropriate inclement weather clothing is recommended.

DNWS Certification

This course is part of the DNWS Certification Program. See Certification Programs section for additional information.

Course Length

4 Days; 32 Hours

DNWS Course #

TBD

Scheduled Dates:

26 - 30 Oct 15
8 - 11 Feb 16
7 - 10 Mar 16
2 - 5 May 16
11 - 14 Jul 16
8 - 11 Aug 16

Advanced Diagnostics Training 2 (ADT-2)

Course Length

5 Days; 40 Hours

DNWS Course #

TBD

Scheduled Dates:

2 - 6 Nov 15

15 - 19 Feb 16

14 - 18 Mar 16

9 - 13 May 16

18 - 22 Jul 16

15 - 19 Aug 16

Synopsis

Advanced Diagnostics Training (ADT II) is a classified five-day course of instruction which focuses on steady-state operations threat assessment of Nuclear Materials of Concern. This course also focuses on interagency policy, threat design concepts, nuclear science, tactics, techniques, procedures, and crisis communications. This course meets interagency training standards for national crisis response.

Objectives

- Demonstrate operational roles, responsibilities and limitations.
- Demonstrate appropriate notification procedures.
- Understand membership within national crisis response architecture.
- Demonstrate response safeties by utilizing appropriate interagency tactics, techniques, procedures and communications.
- Develop threat assessment while supporting a Lead Federal Agency.

Format

Lectures, facilitated discussions, individual technical hands-on classes, and group technical hands-on classes.

Who Should Take This Course

Title 10, 18, and 32 personnel assigned as an Explosive Ordnance Disposal/Bomb Technicians who, during steady-state operations, may be requested by a Lead Federal Agency (LFA) to develop a threat assessment of Nuclear Materials of Concern (NMOC).

Prerequisites

Graduates of Naval School Explosive Ordnance Disposal, Hazardous Devices School or members of the interagency render safe enterprise. Students must have completed ADT I course of instruction or interagency equivalent. Student must review the ADT I Student Guide and Los Alamos Radiation Monitoring Handbook prior to arrival. Student are required to take the ADT I post-test upon arrival and must pass with an 70% or greater to continue course of instruction.

Course Classification

Secret with a Restricted Data/Critical Nuclear Weapons Design Information read-in or equivalent "Q" clearance.

Security Requirements

Students must have a current Secret clearance with a Restricted Data (RD)/Critical Nuclear Weapons Design Information (CNWDI) "read-in" documented in JPAS or equivalent "Q" clearance. Deadline for registration is 21 days prior to the class convene date.

Registration

Login to DNWS Site and click on applicable date located below for class registration.

Appropriate Dress

ACUs, ABUs, or Utility Uniform.

Portions of the class are administered outdoors. Appropriate inclement weather clothing is recommended.

Introduction to Radiological and Nuclear Incident Response (IRNIR)

Synopsis

Introduction to Radiological and Nuclear Incident Response (IRNIR) provides a foundation for advanced DNWS courses. It is a two-day awareness-level course that provides instruction on basic radiation science; fundamentals of nuclear weapons and radiological dispersal devices; radiological terrorism; medical and psychological effects of radiation exposure; radiation hazards, detection equipment, personal protective equipment, and decontamination; and Federal incident response. This course may also be brought to your organization via a mobile training team.

In addition to the IRNIR course, a one-day Executive Response to Nuclear and Radiological Incident (ERNRI) seminar is also available. The purpose of this seminar is to inform Commanders, supervisors and staff from the military, government, and civilian agencies of the two-day Introduction to Radiological and Incident Response (IRNIR) Course.

Objectives

- Identify the principles of basic radiation science
- Identify the different types of nuclear weapons and radiological dispersal devices
- Identify potential terrorist use of nuclear and radiological weapons
- Recognize the medical/psychological effects of exposure to ionizing radiation
- Identify elements of radiological hazards, detection, personal protective equipment, and decontamination
- Identify Federal roles and responsibilities for incident response

Format

Facilitated discussions and lectures supported by video presentations, case studies, and slide presentations.

Who Should Take This Course

DOD Active, Guard, and Reserve first and second responders and Federal, state, tribal, and local responders and emergency managers. Non-DOD responders are also welcome to share interagency knowledge.

Prerequisites

None.

Course Classification

Unclassified

Appropriate Dress

Military: As directed by the individual's service. Civilians: Business casual

MTT Capable

For scheduling and funding requirements contact the DNWS Reserve Component at 505-846-0663 and/or send e-mail to: dtra.reservecomponent@mail.mil

Registration

Login to DNWS website (see registration section for more information)

DNWS Certification

This course is part of the DNWS Certification Program. See Certification Programs section for additional information.

USN Course ID

S-140-0008

DHS Course ID

DOD-001-COMM

Course Length

2 Days; 16 Hours

DNWS Course #

NR100

Scheduled Dates:

3 - 4 Dec 15

3 - 4 Mar 16

2 - 3 Jun 16

8 - 9 Sep 16

MTT

Updated dates and locations can be found on the DNWS website.

https//dnws.abq.dtra.mil

ACE CREDIT American Council on Education College Credit Recommendation Service

Lower Division
Undergraduate
1 Credit Hour

Nuclear Response

Nuclear Response

Applied Radiological Response Techniques Level 2 (ARRT-2)

Course Length

5 Days; 40 Hours

DNWS Course #

NR401

Scheduled Dates:

19 - 23 Oct 15
16 - 20 Nov 15
29 Feb - 4 Mar 16
18 - 22 Apr 16
20 - 24 Jun 16
1 - 5 Aug 16

Synopsis

Applied Radiological Response Techniques Level 2 (ARRT-2) is a five-day intermediate course for first responders focused on the applied use of common radiation detection and measurement systems. The format is small-group instruction with 50 percent of the course comprised of lectures on instrument theory and operation and practical exercises. The remaining 50 percent of the course centers on actual field application of different systems and interpretation of results. Attendees should bring clothing and footwear appropriate for outdoor activities.

Objectives

An intermediate course to:

- Develop practical skills to initially evaluate an unknown radiological environment
- Apply basic methods of radiological search and area characterization
- Understand applications of different classes of radiation instrumentation
- Select and use the proper radiation instrumentation to gather survey data
- Plan and implement a radiation survey
- Apply methods to identify and quantify an unknown radiological hazard
- Apply methods to reduce unwanted radiation exposure and contamination
- Apply legal issues associated with radiological response personnel
- Synthesize problem solving methodology to control a radiological incident

Format

Small-group experiences and practical exercises. Not to exceed 12 students per course.

Who Should Take This Course

Individuals or small teams with a radiological response mission.

Prerequisites

Must complete ARRT-1 or have radiological knowledge with constructive credit awarded after evaluation by the course manager.

Course Classification

Unclassified

Registration

Login to DNWS website (see registration section for more information)

Appropriate Dress

Military: Service specific utility uniform.

Civilians: Business casual. NOTE: During the field training exercises, you are allowed to wear your service specific physical training (PT) gear. Civilians are allowed to wear appropriate physical training gear as well.

DNWS Certification

This course is part of the DNWS Certification Program. See Certification Programs section for additional information.

USN Course ID

S-140-0013

USA Course ID

DNWS-RO27

DHS Course ID

DOD-014-RESP

ACE American Council on Education CREDIT College Credit Recommendation Service

Only in conjunction
with ARRT-1
Upper Division
Undergraduate
3 Credit Hours

Applied Radiological Response Techniques Level 3 (ARRT-3)

Synopsis

Applied Radiological Response Techniques Level 3 (ARRT-3) is a five-day advanced exercise for incident response organizations requiring an environment in which to practice technical capabilities against unknown radiological situations. An open format of field exercises is used to test a unit's techniques, tactics, and procedures against a radiological incident. This course focuses on real-world team exercises. DNWS staff will design scenarios to meet the client's need.

Objectives

- An advanced exercise course to: Deploy and exercise in real-time against real sources/contamination
- Allow commanders, staff, and managers to assess subordinate response capabilities
- Provide a malleable radiological environment to meet exercise and evaluation needs

Format

Open format field exercise(s) to test a unit's techniques, tactics, and procedures against a radiological incident. ARRT-3 focuses on real-world team exercises.

Who Should Take This Course

Incident response organizations that require an environment to practice technical capabilities against unknown radiological situations.

Prerequisites

Completion of ARRT-1 and ARRT-2 are recommended for technical response individuals prior to deploying a team to DNWS. Those teams with ARRT-1 and ARRT-2 level knowledge may schedule exercises via the course manager.

Course Classification

Unclassified

Registration

Login to DNWS website (see registration section for more information)

Appropriate Dress

Military: Service specific utility uniform.

Civilians: Business casual. NOTE: During the field training exercises, you are allowed to wear your service specific physical training (PT) gear. Civilians are allowed to wear appropriate physical training gear as well.

USN Course ID

S-140-0014

Course Length

5 Days; 40 Hours

DNWS Course #

NR420

Scheduled Dates:

11 - 15 Jan 16
25 -29 Apr 16
27 Jun - 1 Jul 16

Nuclear Response

Nuclear Weapons Incident Response Training, Basic (NWIRT)

Course Length

3 Days; 24 Hours

DNWS Course #

NR150

USAF Course ID

J5OZD13B402DA

USA Course ID

DNWS-ROO3

USMC Course ID:

F04B0Z1

USN Course ID:

S-140-0010

Scheduled Dates:

15 - 17 Dec 15

2 - 5 Feb 16

17 - 19 May 16

19 -21 Jul 16

MTT

Updated dates and locations can be found on the DNWS website.

https//dnws.abq.dtra.mil

Synopsis

Nuclear Weapon Incident Response Training (NWIRT) Basic Course is an unclassified three-day course mandatory for Initial Response Force(IRF) and Response Task Force (RTF) Commanders and staff; it is presented by inter-agency instructors in an academic format. 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, including DHS, FBI, and DOE; and legal and public affairs issues specific to a nuclear weapon incident. Course can be taught in-residence or by mobile training team (MTT).

Objectives

- To provide an unclassified overview of the current DoD nuclear weapon stockpile and potential hazards should an incident occur.
- National policy and structure for nuclear weapon incident response, including applicable Presidential Directives; the National Response Framework, roles and responsibilities of DoD and other federal departments and agencies; responsibilities of State, Local, and Tribal jurisdictions; DoD policy and guidance; and applicable unified and major Military Department command plans.
- An overview of DoD and other departments' and federal agencies'special response teams and resources that could be brought to bear following a nuclear weapon incident, including safety and Accident Investigation Boards.
- An explanation of the various phases of nuclear incident response and the key activities associated with each.
- Unique aspects and issues associated with PA and public communications following a nuclear incident.
- Unique legal issues and concerns associated with response to a nuclear weapon incident.

Format

Facilitated discussions and lectures supported by video presentations, case studies, and practical exercises.

Who Should Take This Course

DOD, Federal, State, tribal, amd local(STL) personnel that have the responsiblity for responding to/supporting a U.S. Nuclear weapon incident. Course may be mandataory for some DOD personnel: see DODM 3150.08 Encl.2 p.76 for details.

Recomended Training

Available through DHS/FEMA (http://training.fema.gov/is/crslist.asp):

- IS 100.b. (or current version). Introduction to the Incident Command System (3 hrs)
- IS 200.b. (or current version). ICS for Single Resources and Initial Actions Incidents (3 hrs)
- IS 700.a. (or current version). National Incident Management System, an Introduction (3 hrs)
- IS 702.a. (or current version). National Incident Management System (NIMS) Public Information Systems (3 hrs)
- IS 800.b. (or current version). National Response Framework, an Introduction (3 hrs)
- IS 836. Nuclear Radiological Incident Annex (1 hr)

Available through DTRA/DNWS (https://dnws.abq.dtra.mil)

- NR101DL. Nuclear Emergency Team Operations Primer (40 hrs)

Available through U.S.ARMY North (http://www.arnorth.army.mil/dsca)

- J3ST-US010. Defense Support of Civil Authorities (DSCA) Phase I Course (9 hrs)

Course Classification

Unclassified//For Official Use Only

Registration

Login to DNWS website (see registration section for more information)

Appropriate Dress

Military: As directed by the individual's service. Civilians: Business casual. For students attending MTT: TBD by requesting organization

DNWS Certification

This course is part of the DNWS Certification Program. See Certification Programs section for additional information.

NWIRT Executive Course (NWIRT-E)

Synopsis

Nuclear Weapons Incident Response Training (NWIRT) Executive Course is an unclassified one-day executive-level course presented by the interagency instructors in an academic format. The course reviews the following topics: the roles and responsibilities of the DOD during a nuclear weapon incident as mandated y national policy; response by other Federal departments or agencies, including DHS, FBI, and DOE: and legal and public affairs issues specific to a U.S. nuclear weapons incident. Course is taught by mobile training team (MTT).

Objectives

- To provide an unclassified overview of the current DoD nuclear weapon stockpile and potential hazards should an incident occur.
- National policy and structure for nuclear weapon incident response, including applicable Presidential Directives; the National Response Framework, roles and responsibilities of DoD and other federal departments and agencies; responsibilities of State, Local, and Tribal jurisdictions; DoD policy and guidance; and applicable unified and major Military Department command plans.
- An overview of DoD and other departments' and federal agencies'special response teams and resources that could be brought to bear following a nuclear weapon incident, including safety and Accident Investigation Boards.
- An explanation of the various phases of nuclear incident response and the key activities associated with each.
- Unique aspects and issues associated with Public Affairs and public communications following a nuclear incident.
- Unique legal issues and concerns associated with response to a nuclear weapon incident.

Format

Facilitated discussions and lectures supported by video presentations, and case studies.

Who Should Take This Course

Senior military and Federal employees and their senior support staff who have the responsibility to respond to nuclear weapon incidents.

Recomended Training

Available through DHS/FEMA (http://training.fema.gov/is/crslist.asp):

- IS 100.b. (or current version). Introduction to the Incident Command System (3 hrs)
- IS 200.b. (or current version). ICS for Single Resources and Initial Actions Incidents (3 hrs)
- IS 700.a. (or current version). National Incident Management System, an Introduction (3 hrs)
- IS 702.a. (or current version). National Incident Management System (NIMS) Public Information Systems (3 hrs)
- IS 800.b. (or current version). National Response Framework, an Introduction (3 hrs)
- IS 836. Nuclear Radiological Incident Annex (1 hr)

Available through DTRA/DNWS (https://dnws.abq.dtra.mil)

- NR101DL. Nuclear Emergency Team Operations Primer (40 hrs)

Available through U.S.ARMY North (http://www.arnorth.army.mil/dsca)

- J3ST-US010. Defense Support of Civil Authorities (DSCA) Phase I Course (9 hrs)

Course Classification

Unclassified//For Official Use Only

Registration

Registration procedures will be explained in the invitation package

Appropriate Dress

Military: As directed by the individual's service. Civilians: Business casual. For students attending MTT: TBD by requesting organization

DNWS Certification

This course is part of the DNWS Certification Program. See Certification Programs section for additional information.

Course Length

1 day, 8 hours.

DNWS Course #

NR150E

Scheduled Dates:

By Invitation Only

CBRN MODELING

Advanced System Survivability Integrated Simulation Toolkit Level 1 (ASSIST)

Synopsis

Advanced System Survivability Integrated Simulation Toolkit (ASSIST) course introduces the basic concepts of radiation, radio communications, radio frequency (RF) propagation, and optics modeling tools. Students are trained on the application of ASSIST tools to model the environments of nuclear detonations in and above the earth's atmosphere. The environments created by high altitude nuclear detonations can have immediate and long-term effects on space-based systems and supporting infrastructure operating on the ground. Instructor demonstrations and hands-on training include familiarization and practice using the ASSIST graphical user interface to apply a suite of models to estimate radiation environments and their effects. At the end of this course, participants will be able to understand and demonstrate the following course objectives.

Objectives

- Understand the phenomenology of high-altitude nuclear environments
- Understand the limitations and capabilities of ASSIST suite of tools to assess potential survivability of space-based systems and missile systems operating in nuclear radiation environments
- Apply the ASSIST suite of tools to estimate nuclear environments and their impacts to ground and space-based systems, RF-propagation, Ballistic Missile Defense System (BMDS) interceptors, and radar or optical tracking systems

Format

Instructor presentations, demonstrations, and student hands-on application of the VAPO software.

Who Should Take This Course

Military personnel, Federal employees, or their supporting contractors who have responsibilities to assess the effects of high altitude nuclear explosions.

Prerequisites

Basic skills with contemporary Microsoft Windows-based personal computers. Requires software user registration on Joint Operation Center, https://opscenter.dtra.mil

Course Classification

SECRET//RESTRICTED DATA-CNWDI

Security Requirements

Students' security managers must ensure that they have been read into SECRET//RESTRICTED DATA-CNWDI. These caveats must be updated in JPAS for all DOD personnel.

Registration

Login to DNWS website (see registration section for more information)

Appropriate Dress

Service directed duty uniform for military students and business casual for civilian students.l

Course Length

4 Days; 32 Hours

DNWS Course #

CM270

Scheduled Dates:

HQ DTRA CBRNE M&S Training Center (only)

21 - 24 Mar 16

Geospatial Intelligence for Consequence Assessment (GICA)

Course Length

2 Days; 16 Hours

DNWS Course #

CM101 and

CM101V

Scheduled Dates:

26 - 27 Oct 15

14 - 15 Dec 15

8 - 9 Feb 16

6 - 7 Jun 16

18 - 19 Jul 16

15 - 16 Aug 16

HQ DTRA CBRNE M&S Training Center

25 - 26 Jan 16

4 - 5 Apr 16

18 - 19 Jul 16

19 - 20 Sep 16

Synopsis

Geospatial Analysis for Consequence Assessment (GACA) is a two-day course that provides students with concepts and skills to analyze mass-casualty events using the ESRI ArcMap software in conjunction with DTRA hazard modeling tools. Students will apply learning within the context of modeling, mapping, visualization, and consequence assessment using DTRA hazard modeling and assessment tools. This course should be taken as a prerequisite to CATS. At the end of this course, participants will be able to understand and demonstrate the following course objectives.

Objectives

- Demonstrate knowledge of geospatial information systems (GIS) principles and terminology
- Demonstrate techniques for topographic portrayal of hazard events using GIS software
- Demonstrate techniques for creating, editing, projecting, and attributing data in a GIS database
- Demonstrate techniques for final processing, analyzing, and classifying data in an GIS database

Format

Instructor presentations, demonstrations, and student hands-on application.

Who Should Take This Course

Military, government civilians, and government contractors involved in CBRNE event modeling.

Prerequisites

Requires basic computer skills and completion of the Geospatial Analysis for Consequence Assessment course. Requires software user registration on Joint Operation Center, https://opscenter.dtra.mil

Course Classification

Unclassified

Registration

Login to DNWS website (see registration section for more information)

Appropriate Dress

Military: As directed by individual's service. Civilians: Business Casual

MTT Capable:

Based on availability and coordination with DTRA CBRNE training manager.

DNWS Certification

This course is part of the DNWS Certification Program. See Certification Programs section for additional information.

USA Course ID

GICA

Consequence Assessment Tool Set (CATS)

Synopsis

Consequence Assessment Tool Set (CATS) is a three-day course in which students learn to use a suite of tools to model CBRNE hazards and assess their impact on the population and critical infrastructure. Training is provided through instructor presentations and student hands-on applications of CATS. The student will learn the capabilities and limitations of CATS and evaluate output products to communicate risks and hazards. At the end of this course, participants will be able to understand and demonstrate the following course objectives.

Objectives

- Recognize and understand capabilities and limitations of FiRST, ALOHA, ArcMap
- Define and describe analytical functionality of CATS software suite
- Apply the CATS suite of tools to model CBRNE hazards and assess their impact to the population and infrastructure
- Apply and interpret the results of FiRST analysis
- Introduction to the evolving DOD integrated, net-centric application environment, such as Integrated Weapons of Mass Destruction Toolkit, Joint Effects Module, and Joint Operational Effects

Format

Instructor presentations, demonstrations, and student hands-on application.

Who Should Take This Course

Military, government civilians, and government contractors involved in CBRN event modeling.

Prerequisites

Requires basic computer skills and completion of the Geospatial Analysis for Consequence Assessment course. Requires software user registration on Joint Operation Center, https://opscenter.dtra.mil

Course Classification

Unclassified

Registration

Login to DNWS website (see registration section for more information)

Appropriate Dress

Service directed duty uniform for military students and business casual for civilian students.

MTT Capable

Based on availability and coordination with DTRA CBRNE training manager.

DNWS Certification

This course is part of the DNWS Certification Program. See Certification Programs section for additional information.

USA Course ID

DNWS-RO21

Course Length

3 Days; 24 Hours

DNWS Course #

CM110 and

CM110V

Scheduled Dates:

28 - 30 Oct 15

16 - 18 Dec 15

10 - 12 Feb 16

8 - 10 Jun 16

20 - 22 Jul 16

17 - 19 Aug 16

HQ DTRA CBRNE M&S Training Center

27 - 29 Jan 16

6 - 8 Apr 16

20 - 22 Jul 16

21 - 23 Sep 16

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

Course Length

5 Days; 40 Hours

DNWS Course #

CM120 and

CN120V

Scheduled Dates:

19 - 23 Oct 15

7 - 11 Dec 15

1 - 5 Feb 16

23 - 27 May 16

11 - 15 Jul 16

8 - 12 Aug 16

HQ DTRA CBRNE M&S Training Center

2 - 6 Nov 15

11 - 15 Jan 16

7 - 11 Mar 16

23 - 27 May 16

11 - 15 Jul 16

29 Aug - 2 Sep 16

Synopsis

Hazard Prediction and Assessment Capability Level 1 (HPAC-1) is a five -day course that provides students with instruction, demonstration, and hands-on student application of the HPAC software to model CBRN releases. Upon completion of the course, students will understand the capabilities and limitations of the program and be able to perform basic hazard predictions and assessments. At the end of this course, participants will be able to understand and demonstrate the following course objectives.

Objectives

Learn to apply the HPAC software model to predict hazard environment areas and potential human effects based on user's mission requirements.

- Recognize and understand capabilities and limitations of material sources and weather data
- Apply Consequence Assessment (CA) methodology
- Select (or Describe) and Apply incident editors to model CBRN hazards
- Interpret and select appropriate outputs
- Add plume overlays and map services to communicate results

Format

Instructor presentations, demonstrations, and student hands-on application of the HPAC software.

Who Should Take This Course

Military, government civilians, and government contractors involved in CBRN event modeling.

Prerequisites

Basic skills with contemporary Microsoft Windows-based personal computers. Requires software user registration on Joint Operation Center, https://opscenter.dtra.mil

Course Classification

Unclassified

Registration

Login to DNWS website (see registration section for more information))

Appropriate Dress

Service directed duty uniform for military students and business casual for civilian students

MTT Capable

Based on availability and coordination with DTRA.

DNWS Certification

This course is part of the DNWS Certification Program. See Certification Programs section for additional information..

USA Course ID

DTRA-ALEX-HL1

Hazard Prediction and Assessment Capability Level 2 (HPAC-2)

Synopsis

Hazard Prediction and Assessment Capability Level 2 (HPAC-2) is a five-day course that provides students with a higher level of proficiency in modeling and analysis of hazard releases using HPAC. Students will learn to apply and demonstrate source term functionality. At the end of this course, participants will be able to understand and demonstrate the following course objectives.

Objectives

Apply advanced HPAC techniques and procedures to predict hazard environment areas and potential human effects based on user's mission requirements.

- Understand hazard characteristics and sources
- Understand advanced weather topics and computational methods (SCIPUFF)
- Model complex hazards and perform output quality assurance
- Apply editor inputs to accommodate assumptions and uncertainties
- Communicate uncertainties and results
- Add plume overlays and map services to communicate results

Format

Instructor presentations, demonstrations, and student hands-on application of the HPAC software.

Who Should Take This Course

Military, government civilians, and government contractors involved in CBRN event modeling.

Prerequisites

HPAC Level 1 or equivalent, six months HPAC experience, and completion of a course pre-training packet. (Contact the DNWS Registrar for more information.) Requires software user registration on Joint Operation Center, https://opscenter.dtra.mil)

Course Classification

Unclassified

Registration

Login to DNWS website (see registration section for more information)

Appropriate Dress

Service directed duty uniform for military students and business casual for civilian students.l

MTT Capable

Based on availability and coordination with DTRA.

DNWS Certification

This course is part of the DNWS Certification Program. See Certification Programs section for additional information.

USA Course ID

DTRA-ALEX-HL2

Course Length

5 Days; 40 Hours

DNWS Course #

CM150 and

CM150V

Scheduled Dates:

18 - 22 Apr 16

12 - 16 Sep 16

HQ DTRA CBRNE M&S Training Center

5 - 9 Oct 15

8 - 12 Feb 16

22 - 26 Aug 16

CBRN Modeling

Integrated Weapons of Mass Destruction Toolset (IWMDT) Consequence Assessment (CA)

Course Length

5 Days; 40 Hours

DNWS Course #

CM260

Scheduled Dates:

HQ DTRA CBRNE M&S Training Center (only)

26 - 30 Oct 15

22 - 26 Feb 16

20 - 24 Jun 16

Synopsis

Integrated Weapons of Mass Destruction Toolset (IWMDT) - Consequence Assessment (CA) is a five-day course in which the student achieves an initial level of competency in the modeling of CBRN hazard releases. Students learn in a collaborative, Net-centric environment by recognizing the IWMDT toolset, understanding and applying graphical user interface operations, and implementing and assessing consequence assessment initiatives to meet the user's mission requirements. At the end of this course, participants will be able to understand and demonstrate the following course objectives.

Objectives

At the end of the course, participants will be able to:

- Recognize and understand capabilities and limitations of material sources and weather data
- Apply Consequence Assessment (CA) methodology
- Select (or Describe) and Apply incident editors to model CBRN hazards
- Interpret and select appropriate outputs
- Add plume overlays and map services to communicate results

Format

Instructor presentations, lectures, and computer-based exercises.

Who Should Take This Course

Military, government civilians, and government contractors involved in CBRN event modeling.

Prerequisites

Basic skills with contemporary Microsoft Windows-based personal computers. Requires software user registration on Joint Operation Center, https://opscenter.dtra.mil

Course Classification

Unclassified

Registration

Login to DNWS website (see registration section for more information)

Appropriate Dress

Service directed duty uniform for military students and business casual for civilian students.

MTT Capable

Based on availability and coordination with DTRA.

Basic Joint Effects Model Operator Course (JEM)

Synopsis

The Basic JEM Operator Course is a 4-day course designed to enable users to apply the Joint Effects Model (JEM), a web-based modeling system recognized as a DOD Program of Record for modeling and simulating the effects of CBRN weapon strikes and incidents. JEM provides current capabilities from existing models through the use of a common operating architecture, user interface, and interoperable system. JEM will provide a capability to overlay hazard areas on a map or Common Operational Picture (COP). At the end of this course, participants will be able to understand and demonstrate the following course objectives.

Objectives

- Understand the intended uses of JEM
- Identify capabilities and limitations of Incident Source Models (ISMs) developed to calculate the amount of hazardous material released into the environment, the spatial extent and severity of resultant hazard areas, and the impact of those hazards on population and critical infrastructure
- Recognize the types of weather data used within JEM
- Understand how JEM interfaces with current C4I systems
- Apply ArcIMS map manipulation and geospatial data to create map products in various formats
- Describe the flexibility of the JEM working environment to include analysis of multiple incidents, development of templates that require minimal inputs in response to an incident, and running JEM in batch mode

Format

Instructor presentations, lectures, and computer-based exercises.

Who Should Take This Course:

Operational military warfighters, analytical military specialists, authorized government agencies, authorized public safety personnel, and authorized scientific researchers and analysts.

Prerequisites

Requires basic computer skills. Requires registration on Joint Operation Center website at https://opscenter.dtra.mil

Course Classification

Unclassified//For Official Use Only

Registration

Login to DNWS website (see registration section for more information)

Appropriate Dress

Military: As directed by individual's service.
Civilians: Business Casual

MTT Capable

Based on availability and coordination with DTRA.

Course Length

4 days; 32 hours

DNWS Course #

CM130 and CM130V

Scheduled Dates:

7 - 11 Mar 16

HQ DTRA CBRNE M&S Training Center

27 - 30 Jun 16

Integrated Munitions Effects Assessment Level 1 (IMEA-1)

Course Length

5 Days; 40 Hours

DNWS Course #

CM160 and

CM160V

Scheduled Dates:

HQ DTRA CBRNE M&S Training Center (only)

16 - 20 Nov 15

9 - 13 May 16

12 -16 Sep 16

Synopsis

Integrated Munitions Effects Assessment Level 1 (IMEA-1) is a five-day course that provides students with an initial level of competency in IMEA. Students will experience the capabilities and limitations of IMEA by obtaining target models, creating attack plans, and analyzing and interpreting results. At the end of this course, participants will be able to understand and demonstrate the following course objectives.

Objectives

Learn to apply the IMEA software model to attack targets and analyze the results.

- Understand and apply IMEA capabilities, limitations, and uncertainties
- Recognize the lexicon and issues of hardened and deeply buried targets (HDBT), and weapons nomenclature in the context of using IMEA
- Demonstrate IMEA interface with HPAC and analyze results
- Understand and apply the IMEA assessment methodology and process
- Characterize targets within IMEA software as buildings, bunkers, and tunnels
- Calculate probabilistic attack against a building, bunker and tunnel model
- Apply an attack plan on a target and communicate results

Format

Instructor presentations, demonstrations, and student hands-on application of the IMEA software.

Who Should Take This Course

Military, government civilians, and government contractors involved in targeting buildings, bunkers, tunnels as well as those involved in CBRN event modeling.

Prerequisites

Basic skills with contemporary Microsoft Windows-based personal computers. Requires software user registration on Joint Operation Center, https://opscenter.dtra.mil

Course Classification

SECRET

Security Requirements

SECRET

Registration

Login to DNWS website (see registration section for more information)

Appropriate Dress

Service directed duty uniform for military students and business casual for civilian students.l

MTT Capable

Based on availability and coordination with DTRA.

DNWS Certification

This course is part of the DNWS Certification Program. See Certification Programs section for additional information.

USA Course ID

DTRA-ALEX-IL1

Integrated Munitions Effects Assessment Level 2 (IMEA-2)

Synopsis

Integrated Munitions Effects Assessment Level 2 (IMEA-2) is a five-day course that provides students with an integrated view of the capabilities and limitations of IMEA. Students will work toward an enhanced understanding of the capabilities and limitations of IMEA and greater proficiency in importing and creating target models, developing attack plans using conventional or nuclear weapons, performing consequence assessment to WMD scenarios, and defending results.

Objectives

At the end of this course, participants will be able to:

- Apply advanced user interface options and minimize uncertainty
- Import, edit, and modify target sites within the IMEA software
- Calculate probabilistic attacks against predefined targets
- Develop attack plans using either conventional or nuclear weapons
- Defend IMEA calculations and estimates of attack plan options

Format

Instructor presentations, demonstrations, and student hands-on application of the IMEA software.

Who Should Take This Course

Military, government civilians, and government contractors involved in targeting buildings, bunkers, tunnels as well as those involved in CBRN event modeling.

Prerequisites

Completion of IMEA Level 1 in the last 2 years. Basic skills with contemporary Microsoft Windows-based personal computers. Requires software user registration on Joint Operation Center, https://opscenter.dtra.mil

Course Classification

SECRET

Security Requirements

SECRET

Appropriate Dress

Service directed duty uniform for military students and business casual for civilian students.l

MTT Capable

Based on availability and coordination with DTRA.

DNWS Certification

This course is part of the DNWS Certification Program. See Certification Programs section for additional information.

USA Course ID

DTRA-ALEX-IL2

Course Length

5 Days; 40 Hours

DNWS Course #

CM180 and

CM180V

Scheduled Dates:

HQ DTRA CBRNE M&S Training Center (only)

25 - 29 April 16

15 - 19 Aug 16

Vulnerability Assessment Protection Options Level 1 (VAPO-1)

Course Length
5 Days; 40 Hours

DNWS Course #
CM170 and
CM170V

Scheduled Dates:
13 - 17 Jun 16

HQ DTRA CBRNE M&S Training Center
14 - 18 Dec 15
11 - 15 Apr 16
25 - 29 Jul 16

Synopsis

Vulnerability Assessment Protection Options (VAPO) Level 1 is a five-day course in which students will receive instruction in the full functionality of VAPO to include its capabilities, limitations, and assumptions. Using the VAPO software, students will assess and analyze a spectrum of threats against assets and develop mitigating strategies with respect to vulnerability assessment and force protection. At the end of this course, participants will be able to understand and demonstrate the following course objectives.

Objectives

- Understand limitations and capabilities of VAPO
- Create and modify a facility site plan and explosive threats
- Create and run a scenario by applying an explosive threat and site asset(s)
- Analyze the site vulnerabilities and apply retrofit mitigation strategies
- View, interpret, and communicate results
- Demonstrate interoperability of VAPO with HPAC (WMD)

Format

Instructor presentations, demonstrations, and student hands-on application of the VAPO software.

Who Should Take This Course

Military, government civilians, and government contractors involved in CBRN Vulnerability Assessment modeling.

Prerequisites

Basic skills with contemporary Microsoft Windows-based personal computers. Requires software user registration on Joint Operation Center, https://opscenter.dtra.mil

Course Classification

Unclassified

Registration

Login to DNWS website (see registration section for more information)

Appropriate Dress

Service directed duty uniform for military students and business casual for civilian students.l

MTT Capable

Based on availability and coordination with DTRA.

DNWS Certification

This course is part of the DNWS Certification Program. See Certification Programs section for additional information.

USA Course ID

DTRA-ALEX-VL1

Vulnerability Assessment Protection Option Level 2 (VAPO-2)

Synopsis

Vulnerability Assessment and Protection Option Level 2 (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 and engineering response models to enhance the application of VAPO for force protection, anti-terrorism and vulnerability assessment modeling against a wide spectrum of real world threats. At the end of this course, participants will be able to understand and demonstrate the following course objectives.

Objectives

- Modify building models using advanced features, such as user-defined buildings and spec sheets.
- Describe characteristics of the blast environment (external and internal air blast, fragmentation, and cratering) and VAPO's associated methodologies
- Describe structural response behavior to applied blast loading and VAPO's associated methodologies including progressive collapse concepts
- Estimate and analyze equipment damage, human injuries, and degradation of critical infrastructure systems as a result of a blast event
- Demonstrate advanced abilities of VAPO, such as user-defined input/output parameters, batch calculations, import/export for collaboration and sharing, etc.

Format

Instructor presentations, demonstrations, and student hands-on application of the VAPO software.

Who Should Take This Course

Military, government civilians, and government contractors involved in CBRN Vulnerability Assessment modeling.

Prerequisites

Basic skills with contemporary Microsoft Windows-based personal computers. Requires software user registration on Joint Operation Center, https://opscenter.dtra.mil

Course Classification

Unclassified

Registration

Login to DNWS website (see registration section for more information)

Appropriate Dress

Service directed duty uniform for military students and business casual for civilian students.l

MTT Capable

Based on availability and coordination with DTRA.

DNWS Certification

This course is part of the DNWS Certification Program. See Certification Programs section for additional information.

USA Course ID

DTRA-ALEX-VL12

Class Length
4 Days (32 Hours)

DNWS Course #
CM190 and
CM190V

Schedule Dates:
20 - 23 Jun 16

HQ DTRA CBRNE M&S Training Center
5 - 8 Jan 16
18 - 21 Apr 16

Intermediate Modeler Course (IMC)

Course Length

5 Days; 40 Hours

DNWS Course #

CM130B

Scheduled Dates:

16 - 20 May 16

19 - 23 Sep 16

HQ DTRA CBRNE M&S Training Center

30 Nov - 4 Dec 15

29 Feb - 4 Mar 16

6 - 10 Jun 16

Synopsis

Intermediate Modeling Course is a five-day course that enables students to recognize and apply features of DTRA CBRNE modeling in an integrated function-centric approach to support CWMD decisions. This course builds upon previous tool-centric training through hands-on applications to provide a comprehensive hazard or risk assessment. At the end of this course, participants will be able to understand and demonstrate the following course objectives.

Objectives

- Understand the capabilities and limitations of integrating software tools, such as HPAC, FiRST, ICWater, IWMDT, HAZUS-MH, ArcGIS, Google Earth, that could be used to perform the functions required for comprehensive consequence assessment (CA)
- Identify and apply tools and data from available resources to support a coordinated approach to an incident response
- Apply the interoperability of CBRNE tools to model the unique challenges associated with force protection, target analysis, and military and civilian hazard assessment
- Generate, interpret, and communicate comprehensive CBRNE modeling results
- Discuss the evolution of CBRNE modeling technology and its impact on hazard assessment

Format

Instructor presentations, lectures, and computer-based exercises.

Who Should Take This Course

Military, government civilians, and government contractors involved in CBRN event modeling.

Prerequisites

HPAC Level 1, Geospatial Intelligence for Consequence Assessment, and Consequence Assessment Tool Set Level 1 courses. Requires registration on Joint Operation Center, https://opscenter.dtra.mil

Course Classification

Unclassified

Registration

Login to DNWS website (see registration section for more information)

Appropriate Dress

Service directed duty uniform for military students and business casual for civilian students.

MTT Capable

Based on availability and coordination with DTRA.

DNWS Certification

This course is part of the DNWS Certification Program. See Certification Programs section for additional information.

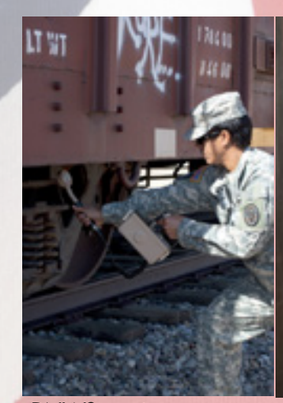
USA Course ID

DNWS-R021

69 Years of Radiological & Nuclear Training Preparing Today's Force

National Guard Civil Support Team members practiced radiological survey and monitoring techniques at the Defense Nuclear Weapons School's field training sites.

The Defense Nuclear Weapons School's radiological training helped responders continue operations and provide support during Operation TOMODACHI. The school also sent technical responders to help support operations in Japan.



DNWS continues to prepare the warfighter and responders to recognize radiological hazards so they can safely and effectively operate.

HOSTED COURSES

Joint CWMD Planning Course (JCPC)

Synopsis

JCPC introduces students to U.S. Government (USG) and Department of Defense (DOD) policy, strategy, doctrine, and planning related to CWMD. The course teaches students to recognize CWMD equities in an operational context and demonstrates how to incorporate them into the Joint Operational Planning Process (JOPP). The first half of the course focuses on the three pillars of CWMD (nonproliferation, counterproliferation, and WMD consequence management) and the eight military mission areas of CWMD identified in joint doctrine and the National Military Strategy to Combat WMD. The second half of the course takes students through select areas of the JOPP and merges CWMD and JOPP concepts through a series of facilitator-led, small-group planning exercises.

Objectives

- Understand USG policy, strategy, and doctrine relating to CWMD
- Be familiar with the USG and DOD organizations involved with CWMD activities
- Be able to recognize CWMD considerations in an operational context
- Be able to apply the eight military mission areas of CWMD to a WMD scenario
- Be able to apply CWMD principles across the spectrum of military operations and planning

Format

Facilitated presentations, discussions and small-group tabletop exercises.

Who Should Take This Course

Military personnel, federal employees, and their supporting contractors (O3 through O6, senior NCOs or equivalent grades) who want to gain knowledge of CWMD fundamentals or who need to know how to incorporate CWMD considerations into plans, exercises, or operations.

Prerequisites

None.

Course Classification

SECRET//RESTRICTED DATA

(if NWIM tour is requested)

Security Requirements

DOD secret clearance.

Registration

Login to DNWS website (see registration section for more information)

Appropriate Dress

Military: As directed by individual's service.
Civilians: Business Casual

USA Course ID

JPC

Course Length

5 Days; 40 Hours

Class by request only.

Defense Integration and Management of Nuclear Data Services (DIAMONDS)

Course Length

3 Days; 24 Hours

DNWS Course #

NW130

Class by request only.

Contact: Diana Kuhn - 703-767-4315

DNS 427-4315

Synopsis

Defense Integration and Management of Nuclear Data Services (DIAMONDS) Training is a three-day course that provides prospective and current DIAMONDS users hands-on familiarization training with the DoD national nuclear stockpile sole accountability database. 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.

Objectives

- Provide familiarization-level training to DIAMONDS users to include nuclear weapons custodial unit personnel, Service Logistics Agents, DOE, and general users of the DIAMONDS system
- Incorporate current practices for generating, processing, and submitting DIAMONDS transactions
- Incorporate DOD nuclear weapons accountability policy and procedures

Format

Facilitated lectures, faculty led hands-on demonstration, and facilitated exercises.

Who Should Take This Course

Air Force, Navy, and Army active duty and civilians responsible for inputting, processing, collecting or retrieving nuclear weapons accountable information.

Prerequisites

None.

Course Classification

SECRET//RESTRICTED DATA-CNWDI

Security Requirements

Attendees must have a SECRET//RESTRICTED DATA-CNWDI clearance.

Registration

Login to DNWS website (see registration section for more information)

Appropriate Dress

Military: As directed by individual's service.
Civilians: Business Casual

Nuclear Weapons Technical Inspections Course (NWTIC)

Synopsis

Nuclear Weapons Technical Inspections Course (NWTIC) is a five-day in-residence course at DNWS in which students will be taught 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.

Objectives

- Provide training to further the standardization and application of the Department of Defense nuclear weapons technical inspection process
- Describe the development of the nuclear enterprise and culture, nuclear policy, and the significance of nuclear deterrence
- Clarify the intent and application of CJCSI 3263.05B, Nuclear Weapons Technical Inspections

Format

Facilitated discussions and lectures supported by slideshow presentations and hands-on inspection scenarios, including an NWIM tour at the Secret, Restricted Data (RD) level.

Who Should Take This Course

Nuclear Surety Inspectors, personnel of nuclear-capable units, and higher headquarters staff personnel with nuclear weapons responsibilities will be given first priority. All other personnel will be considered on a space-available basis.

Prerequisites

Students must complete Defense Nuclear Weapons School's distance learning course prior to enrollment: Nuclear Weapon Surety (NWS); Course Number: NW104DL

Course Classification

SECRET//RESTRICTED DATA-CNWDI

Security Requirements

DOD secret clearance with Restricted Data or DOE 'Q'

Registration

Login to DNWS site and click on applicable date located below for class registration)

Appropriate Dress

Military: As directed by individual's service.

Civilians: Business Casual

DNWS Certification

This course is part of the DNWS Certification Program. See Certification Programs section for additional information.

Course Length

5 Days; 44 Hours

DNWS Course #

NM120 and NM120M

Scheduled Dates:

19 – 23 Oct
14 – 18 Dec
1 - 5 Feb
14 – 18 Mar
11 – 15 Apr
9 - 13 May
13 - 17 Jun
18 - 22 Jul
15 - 19 Aug
12 – 16 Sep

POC for NWTIC is Maj John T. Pope III (505) 846-6780

Hosted Courses

PARTNERSHIP TRAINING & EDUCATION PROGRAM

Partnership Training and Education Program Modules (PTEP)

Overview:

Instruction is available at the classified or unclassified level

Format:

Classroom, hands-on training, tabletop exercises, distance learning and research documents

Faculty:

Subject matter experts

The Partnership Training and Education Program (PTEP) is an integral part of DTRA's mission to safeguard the U.S. and its allies from weapons of mass destruction (chemical, biological, radiological, and nuclear—CBRN) by providing capabilities to reduce, eliminate, and counter the threat and mitigate its effects.

PTEP provides tailored training and resources to match the needs of the requesting agency, department or unit. This program directly supports the Department of Defense along with Federal, state and local agencies. Subject matter experts conduct lectures, seminars, discussion sessions and hands-on training on a broad range of WMD topics. Those topics include strategic, operational, tactical, and technical aspects of nuclear weapons; the U.S. strategic deterrent; WMD proliferation and counter proliferation; WMD response; and WMD consequence management. The presentations are targeted at all levels (introductory, intermediate, or advanced) and can be taught in an unclassified or classified environment. Audiences range from first responder through general/flag officers and other senior executives.

PTEP instructors provide training at the requesting organization's location, and the program's modules are ideal for increasing awareness of current WMD-related issues. Hosting organizations may integrate PTEP modules into their existing education and training programs, or use PTEP modules as electives and focused studies in formal education. PTEP may develop additional modules based on suggested materials in support of the DTRA mission and at the discretion of DTRA leadership.

Core PTEP modules are available in the following areas:

General Nuclear and Radiological Training	*Countering the WMD Threat*
• Basics of Radiation • Biological Effects of Ionizing Radiation (BEIR) • Nuclear Materials and Production • Nuclear Reactor Basics • Nuclear Reactor Accidents • Fukushima/Operation Tomodachi Overview • Dual-Use Technology Overview • Nuclear and Radiological Response • Nuclear Weapons Design • Nuclear Weapons Effects • U.S. Nuclear Stockpile • Nuclear Policy and Forces • Electromagnetic Pulse (EMP) Overview	• The Weapons of Mass Destruction Challenge • DOD Countering WMD Overview • Terrorist Use of Radiological Materials • Nuclear Material Smuggling • WMD Consequence Management • Domestic Nuclear Event: Reality Brief • WMD Elimination • Suicide Bombings • Pandemic Management Overview • Chemical/ Biological Agent Overview • The Bioterrorism Threat

Program Manager	Mr. Chris Pink
Lead Instructors	Mr. Brandon McDaniel Mr. Matt Thompson

For more information on the Partnership Training and Education Program or to request training, please call the Partnership team at (505) 853-4509 / (505) 853-0195 / (505) 846-6524

General Nuclear and Radiological Training

Basics of Radiation

- Understand the fundamentals of radiation
- Be familiar with the types, properties, sources, and dangers of radiation
- Be familiar with the beneficial uses and products of radiological sources
- Be familiar with the hazards associated with radiation

Biological Effects of Ionizing Radiation (BEIR)

- Understand the fundamentals of ionizing radiation
- Be familiar with the significant health effects of ionizing radiation
- Understand the complexity of BEIR issues and the biological process in humans
- Relate this information to the potential terrorist use of radiological materials

Nuclear Materials and Production

- Understand the uranium enrichment and plutonium production fuel cycles
- Be familiar with the various technologies associated with the production of special nuclear material

Nuclear Reactor Basics

- Understand the basics of nuclear reactor design and operation
- Discuss nuclear reactor accidents and incidents
- Understand nuclear reactor types and their potential roles in nuclear weapon production

Nuclear Reactor Accidents

- Discuss the causes of historical nuclear power production reactor accidents
- Discuss the public perception and resulting political fallout of each accident

Fukushima/Operation Tomodachi Overview

- Understand the timeline and events that led to the Fukushima disaster
- Discuss the U.S. response and lessons learned from the DOD perspective

Dual-Use Technology Overview

- Explain the concept of dual-use technology and materials
- Relate dual-use technology and materials theory to nuclear weapon proliferation
- Understand proliferation risks and apply the risks to countries of concern
- Identify various organizations and safeguards in place to monitor dual-use commerce

Nuclear and Radiological Response

- Understand the unique challenges in responding to a nuclear or radiological event
- Understand the role of response agencies ranging from local to Federal in both domestic and international incidents/accidents
- Discuss potential scenarios and associated techniques in dealing with a nuclear or radiological incident/accident

Nuclear Weapons Design

- Understand fission and fusion and their role in nuclear weapons design
- Understand nuclear weapon design concepts
- Understand the history of nuclear weapons design

Nuclear Weapons Effects

- Understand the effects of a nuclear detonation including blast, shock, thermal radiation, prompt radiation, electromagnetic pulse, and fallout

U.S. Nuclear Stockpile

- Understand the stockpile decision process and stockpile categories
- Discuss how the U.S. maintains nuclear weapons quality assurance without nuclear testing
- Discuss recent stockpile decisions under the framework of New Start

Nuclear Policy and Forces

- Discuss the basic tenets of U.S. nuclear policy
- Understand the historical relevance of global nuclear policy
- Discuss U.S. nuclear force structure and the value of the nuclear triad

Electromagnetic Pulse (EMP) Overview

- Discuss the unique effects of EMP on electronic systems following a nuclear weapon detonation
- Discuss EMP vulnerabilities and techniques to mitigate the effects of EMP on electronic systems
- Discuss concepts and techniques utilized while operating in a nuclear degraded environment

Countering the WMD Threat

The Weapons of Mass Destruction Challenge

- Understand the different types of weapons of mass destruction
- Be familiar with the history of CBRN weapons and their use
- Understand shifts in terrorism and potential threats posed by the terrorist use of CBRN weapons
- Be familiar with the Cooperative Threat Reduction Program and DTRA's role in stopping the proliferation of WMD material and expertise

DOD Countering WMD Overview

- Discuss the WMD threat in the 21st century
- Summarize the CWMD mission as laid out in DOD strategy, guidance, and doctrine
- Discuss the doctrinal concepts presented in the new Department of Defense Strategy for Countering Weapons of Mass Destruction and the new Joint Publication 3-40 Countering WMD
- Discuss in detail the three CWMD end states, DOD's four priority objectives, and the three lines of effort as outlined in DOD's CWMD Strategy

Terrorist Use of Radiological Materials

[Includes Radiological Dispersal Devices (RDDs) and Radiological Exposure Devices (REDs)]

- Understand the different methods in which a terrorist could use radiological material as a weapon
- Identify likely radiological sources that would be used in a RDD or RED
- Discuss the design and employment of RDDs ("dirty bombs") and REDs
- Understand basic response considerations for radiological weapons

Nuclear Material Smuggling (Delivery and Detection)

- Understand the basic challenges to detection of nuclear materials smuggling
- Discuss various methods of smuggling nuclear materials
- Understand the basic mechanisms of smuggling prevention

WMD Consequence Management (Foreign and Domestic)

- Discuss the unique aspects of domestic and foreign WMD consequence management
- Be familiar with the National Response Framework (NRF) and National Incident Management System (NIMS)
- Understand DOD's role in both domestic and foreign WMD consequence management

Domestic Nuclear Event: Reality Brief

- Identify a technically accurate representation of the effects of a plausible domestic nuclear event centered on a U.S. city
- Compare the scale of the September 11 attack to a potential terrorist nuclear event
- Dispel myths associated with a nuclear terror event and understand the likely effects
- Identify the complexities associated with a nuclear response

Partnership Training and Education Program

WMD Elimination

- Understand the historical context of WMD elimination missions from World War II to the present
- Discuss the four phases of a WMD elimination mission
- Discuss the operational framework of the Standing Joint Force Headquarters for Elimination

Suicide Bombings

- Understand the unique security challenges in mitigating the effects of a suicide bombing
- Recognize key case studies of past suicide bombings in various regions of the world
- Explain various methods employed by suicide bombers and the evolution of their tactics
- Review the stories of bombers that survived their suicide missions and discuss the logic behind their actions

Pandemic Management Overview

- Describe influenza types, variations, and effects
- Identify DOD plans and capabilities to respond to a pandemic influenza outbreak
- Identify appropriate countermeasures to a pandemic influenza outbreak
- Evaluate U.S. strategy to combat the spread of pandemic influenza
- Identify supporting technologies for detection, surveillance, protection, and mitigation of pandemic influenza outbreak

Chemical/Biological Agent Overview

- Discuss the historical context of chemical and biological warfare agents
- Identify chemical and biological weapons delivery means and weapons effects
- Identify the differences between persistent and non-persistent chemical agents as factors that affect the length and severity of a chemical attack
- Discuss the differences between biological pathogens and toxins as factors that affect the length and severity of a biological attack

The Bioterrorism Threat

- Describe emerging bioterrorism threats and capabilities
- Identify the complexities associated with bioterrorism response
- Understand the necessity of collaboration between public health, law enforcement, and national security organizations for countering bioterrorism
- Identify the strategies, plans, and requirements for bioterrorism consequence management

DNWS CHEM/BIO PROGRAM

Chemical Modules

Chemical Response

- *Agent Fate*
- *Discuss CWA evaporation and reaction kinetics*
- *Determine the environmental fate of chemical agents*
- *Assess and brief impacts to military decision-making*

Case Studies

- *Aleppo/Homs, Syria*
- *Halabja, Iraq*
- *Tokyo, Japan*
- *Bhopal, India*

Equipment

- *Detector capabilities, limitations and employment*
- *Decon planning and selection*

Biological Modules

Bioterrorism Response

- *Describe bioterrorism threats and protective measures*
- *Identify the complexities associated with bioterrorism response*
- *Understand the necessity of collaboration between public health, law enforcement and national security organizations for countering bioterrorism*
- *Identify the strategies, plans and requirements for bioterrorism consequence management*
- *Perform investigative procedure and sensitive site exploitation exercise*
- *Biothreat Doctrinal Review*
- *Discuss international and national policy reviews*
- *Examine cultural, political, legal and ethical issues*
- *Defense planning and considerations*
- *Defense Support to Civil Authorities*

Case Studies

- *Amerithrax*
- *Aum Shinrikyo*
- *Rashneeshees*

Joint BioSurety for Managers

- *Identify principal terms, concepts and definitions relating to surety programs*
- *Identify security controls for biological select agents and toxins (BSAT)*
- *Outline program requirements for accountability for BSAT*
- *Discuss standards, screening, and monitoring for Biological Personnel Reliability Program (BPRP)*
- *Outline the responsibilities for occupational safety and health*
- *Outline the responsibilities for community safety and health*
- *Identify the requirements for records, reports, publications and inspections*

Pandemic Management

- *Describe types, variations and effects of outbreak*
- *Identify national strategies, plans and capabilities for functional response*
- *Employ detection and modeling assets*
- *Identify control measures to be taken before/during a pandemic*
- *Plan medical logistics, pharmaceutical interventions, fatality management, and surge response for laboratories*

Please contact the Training and Development Department at (505) 846-0660 or (505) 853-4258 for availability of any Chemical - Biological instruction, include any requests for training not listed.

DEFENSE NUCLEAR WEAPONS SCHOOL • ALBUQUERQUE NEW MEXICO

USAF CENTER FOR UNCONVENTIONAL WEAPONS STUDIES

Air Force Nuclear Fundamentals Course (Nuclear 200)

Class Length

4.5 Days;
36 Hours

Scheduled Dates

For the latest course schedule information, contact the course registrar at the Air Force Nuclear College registrar at DSN 246-7784 or visit the Air Force Nuclear College SharePoint site at https://cs3.eis.af.mil/sites/OO-AQ-MC-95/default.aspx.

Synopsis

This four and a half day in-residence course is designed to enhance awareness among Airmen of the USAF nuclear mission; the course covers nuclear weapon fundamentals, force structure, nuclear stockpile guidance and planning, the DoD/AF nuclear surety program, the nuclear community, and current issues reated to the USAF's nuclear mission. The focus of ths course is an 'overview' of the entire nuclear enterprise for individuals that have completed at least one operational nuclear assignment and will stay core nuclear for most of their career or for support function/AFSCs assigned to a nuclear unit/job in a supervisory, command, or decision making position and this is their first nuclear mission assignment.

Objectives

- Provide a broad overview of the nuclear enterprise and create a standard frame of reference across the Air Force within which to explore the USAF's nuclear mission, capabilities, and issues
- Describe and discuss the Air Force nuclear mission, force structure, policies, and challenges
- Comprehend the Air Force nuclear surety program
- Explore the relationships between the DoD, Air Force, and DOE/NNSA within the nuclear weapons complex

Format

Facilitated discussions and lectures supported by video presentations and a classified tour of the DTRA Nuclear Weapons Informational Museum (NWIM).

Who Should Attend

- Airman identified as core nuclear E6-E7, O3- 04
- Airman in support roles/non-core nuclear billets assigned to a nuclear unit/job for the first time in a supervisory or decision making role E7-E9, O3-O6
- Attendance is controlled by MAJCOM quota allocations. For MAJCOM POC Information, please contact the Nuclear College Registrar or Course Manager

Course Classification

SECRET//RESTRICTED DATA-CNWDI

Appropriate Dress

Military: As directed by individual's service.
Civilians: Business Casual

Registration

For the latest course information, contact the course registrar at the Air Force Nuclear College registrar at DSN 246-7784 or visit the Air Force Nuclear College SharePoint site at https://cs3.eis.af.mil/sites/OO-AQ-MC-95/default.aspx.

Course Number:

ETCA: MNUC200;
MILPDS: 2X1

Advanced Nuclear Concepts Course (Nuclear 300)

Synopsis

The course provides an in-depth look at key aspects of the Air Force nuclear enterprise to enable better understanding of nuclear deterrence history, theory, and application; nuclear operations policy and strategy; nuclear incident/accident response; and nuclear surety and effects. The focus of this course is for individuals who are at the 9+ year point working in the nuclear enterprise. They are 'core nuclear' and going to a position where they will be setting nuclear policy, procedures, etc. within their func- tional areas. Normally at the NAF division chief level, MAJCOM branch chief level or HAF/Joint 04 AO level or higher. Also, for nuclear AFSC Sq/CCs who have not attended before selection for command.

Objectives

- Nuclear History and Lifecycle
- Nuclear Effects and Surety
- Nuclear Policy/Strategy
- The US Nuclear Enterprise
- Nuclear Incident Responses, Nuclear Museum and Stockpile Maintenance

Format

Facilitated discussions and lectures supported by video presentations and an NWIM tour at the SECRET//RESTRICTED DATA-CNWDI level.

Who Should Attend

- E8–E9, O4–O6, civilian equivalent core nuclear Airmen assigned to squadron/group leadership positions or occupying HAF, MAJCOM, COCOM, NAF, or joint staff billets at the action officer/branch chief level with nuclear operations, maintenance, logistics, support, or acquisition responsibilities within the nuclear enterprise.
- Attendance is controlled by MAJCOM quota allocations. For MAJCOM POC Information, please contact the Nuclear College Registrar or Course Manager

Course Classification

SECRET//RESTRICTED DATA-CNWDI

Appropriate Dress

Military: As directed by individual's service.
Civilians: Business Casual

Registration

For the latest course information,you may contact the Air Force Nuclear College Registrar at DSN 246-7784 or visit the Air Force Nuclear College SharePoint site at https://cs3.eis.af.mil/sites/OO-AQ-MC-95/default.aspx.

Course Number:

ETCA: MNUC300
MILPDS: 0I5

Class Length

5 Days;

Class Length

40 Hours

Scheduled Dates

For the latest course schedule information,contact the course registrar at the Air Force Nuclear College registrar at DSN 246-7784 or visit the Air Force Nuclear College SharePoint site at https://cs3.eis.af.mil/sites/OO-AQ-MC-95/default.aspx.

USAF CENTER FOR UNCONVENTIONAL WEAPONS STUDIES

Senior Leader Nuclear Management (Nuclear 400)

Class Length

2 Days;
16 Hours

Scheduled Dates:

For the latest course schedule information, contact the course registrar at the Air Force Nuclear College registrar at DSN 246-7784 or visit the Air Force Nuclear College SharePoint site at https://cs3.eis.af.mil/sites/OO-AQ-MC-95/default.aspx.

Synopsis

The purpose of the Senior Leader Nuclear Management course is to provide a forum for senior leaders to discuss deterrence theory, nuclear policy, arms control, and other nuclear issues. The focus of this course is for senior leaders who are either: A) Flag Officers and SESs that have nuclear responsibilities anywhere in their portfolio of responsibilities; B) working internal to the nuclear enterprise and are usually post Sq/ CC command in an O6/civilian equivalent level HAF/MAJCOM 3 ltr billet or E9 in similar functional expert billet.

Objectives

- Nuclear Policy, Doctrine and Deterrence Strategy
- Nuclear Landscape, Arms Control and USAF Nuclear Enterprise
- US Nuclear Weapons Stakeholders Format Facilitated discussions by senior leader in the nuclear enterprise and lectures supported by video presentations and a NWIM tour at the Secret/CNWDI Level.

Format

Facilitated discussions by senior leader in the nuclear enterprise and lectures supported by video presentations to and an NWIM tour at the SECRET//RESTRICTED DATA-CNWDI level.

Who Should Attend

- GO's/SES with nuclear portfolios
- O-6/civilian-equivalent level HAF/MAJCOM three-letter or wing/group command billet, E-9 in similar functional expert billets Attendance is by invitation

Course Classification

SECRET//RESTRICTED DATA-CNWDI

Appropriate Dress

Military: As directed by individual's service.

Civilians: Business Casual

Registration

For the latest course information,you may contact the Air Force Nuclear College Registrar at DSN 246-7784 or visit the Air Force Nuclear College SharePoint site at https://cs3.eis.af.mil/sites/OO-AQMC-95/default.aspx.

Course Number:

ETCA: MNUC400

MILPDS: 0KQ

Air Force Nuclear Certification Process Course

Synopsis

This course provides attendees with an understanding of the Air Force Nuclear Certification Process as prescribed by AFI 63-125, Nuclear Certification Program. It identifies and defines and explains the four phases of the certification process, the two major elements of Certification (Design Certification and Operational Certification) and their components. The course provides a practical discussion on the development, submittal, and approval process for the Nuclear Certification Impact Statement (NCIS) and the Certification Requirements Plan (CRP) (NOTE: An on-site Road Show (Mobile training Team) version of the Certification Process course (6-8 hours) and an executive seminar (1- 4 hours) are offered upon request, based on instructor availability and funding.

Objectives

- Identify, define and explain the Air Force Nuclear Certification Process
- Understand why nuclear certification is important
- Understand how the nuclear certification process works
- Understand the purpose and functions of the Master Nuclear Certification List (MNCL)

Course Number:

ETMS: CKVNUC0000100SU;

MIL PDS Code: CIA (In-Resident Course

ETMS: CKVNUC0000400SU;

MIL PDS Code: XW2 (Non-Resident Course)

ETMS: CKVNUC0000200SU;

MIL PDS Code: ORV (Non-resident Exec Course)

Format

Facilitated discussions and lectures supported by case study exercises and video presentations

Who Should Attend

This course is open to government personnel who need to understand current nuclear certification process guidance and implmentation, to include program mangers, system product managers, single managers, equipment specialists, item managers at product and logistics centers, plans, requirements, and logisticians personnel, operations and maintenance personnel at field , NAF, MAJCOM and HQs AF levels. All grade levels are welcome, but we recommend that personnel be in grade levels GS-5, E-5, O-1 or higher.

Course Classification

Unclassified

Appropriate Dress

Military: As directed by individual's service.

Civilians: Business Casual

Registration

For the latest course information contact the Air Force Nuclear College Registrar at DSN 246-7784 or visit the Air Force Nuclear College SharePoint site at https://cs3.eis.af.mil/sites/OO-AQ-MC-95/default.aspx. To arrange for a MTT please contact the AirForce Nuclear College Registrar.

Class Length

2 Days - CIA
1 Day - XW2
½ Day - ORV

Scheduled Dates:

For the latest course schedule information, contact the course registrar at the AirForce Nuclear College registrar at DSN 246-7784 or visit the Air Force Nuclear College SharePoint site at https://cs3.eis.af.mil/sites/OO-AQMC-95/default.aspx.

USAF CENTER FOR UNCONVENTIONAL WEAPONS STUDIES

Air Force Nuclear Certified Equipment Users Course

Class Length

1 Day

Class Length

8 Hours

Scheduled Dates:
Please contact the Air Force Nuclear College Course registrar to arrange MTT presentation

Synopsis

The Air Force Nuclear Certified Equipment (NCE) Users Course is designed to enhance Air Force Nuclear Surety by increasing awareness of the responsibilities and requirements for personnel who operate, maintain, and manage NCE. This course is designed to help field users and other personnel become familiar with the basics of handling, managing, and reporting NCE. The course will provide familiarization with elements of the NCE Management Program and enhance attendee's knowledge and understanding of how to use the Master Nuclear Certification List. (NOTE: An on-site Road Show (Mobile training Team) version of the Nuclear Certified Equipment Users course is offered upon request, based on instructor availability and funding.

Objectives

- Understand the requirements and responsibilities for the management of NCE
- Understand how to use the Master Nuclear Certification List
- Know how to determine NCE serviceability and certification status,
- Be knowledgeable of the requirements for deficiency reporting on NCE

Format

Facilitated discussions and lectures supported by class exercises.

Who Should Attend

Unit/NAF/MAJCOM personnel responsible for handling, managing, or using nuclear certified equipment (NCE), or engaged in managing/monitoring NCE as proxcribed in AFI 63-125

Course Classification

Unclassified

Appropriate Dress

Military: As directed by individual's service.
Civilians: Business Casua

Registration

For the latest course information,you may contact the course registrar at the Air Force Nuclear College Registrar at DSN 246-7784 or visit the Air Force Nuclear College SharePoint site at https://cs3.eis.af.mil/sites/OO-AQ-MC-95/default.aspx.

Course Number:

ETMS:CKVNUC00006006U;
MILPDS: Pending

INFORMATION ANALYSIS RESOURCES

Defense Threat Reduction Information Analysis Center (DTRIAC)

Core Activities

Core Activities are fully funded (by DTRA) to qualified users, and include maintenance of the information databases, services, and technical inquiries. This includes:

- Maintain and grow the DTRA Scientific and Technical (S&T) knowledge base – over 3 million documents, films, videos, photographs, drawings, and engineering data
- Provide online access to the DTRA S&T knowledge base using the Scientific & Technical Information Archival and Retrieval System (STARS)
- Respond to Technical Inquiries of less than 8 hours

Technical Area Tasks (TAT)

TATs provide for timely support to IAC customers who require specialized efforts on topics of very narrow technical focus and applicability, and require more depth and specialization than is available as part of the core activities. TATs include studies, analyses, assembly of data collections, and development of tools and techniques for the collection and analysis of data, as well as other unique scientific and technical activities. TATs require separate funding by the requesting customer.

Defense Threat Reduction Information Analysis Center Holdings:

- Nuclear Weapon Effects
- High Yield Explosives and associated Phenomena such as Blast, Shock, and Overpressure
- Types of and Destructive power of various explosives
- Cooperative Threat Reduction Information
- Biological topics such as Agents and Warfare
- Bacteria and Bacterial Toxins, Fungi and Viruses
- Journals, Periodicals and Special Collections include:
  - Armed Forces Radiobiological Research Institute (AFRRI)
  - IEEE Transactions on Nuclear Science
  - Plowshare Project
  - Quick Look reports
  - And others
- Technical Manuals:
  - Effects of Nuclear Weapons by Samuel Glasstone
  - Weapons of Mass Destruction Terms Handbook
  - Caging the Dragon, the Containment of Underground Nuclear Explosions
  - Building the Cage
  - Defense's Nuclear Agency 1947 – 1997
  - Responding to War, Terrorism, WMD Proliferation: History of DTRA, 1998-2008
  - LANL Nuclear Weapons Analysis Tools, Ver 5.5 (CD)
  - EM-1 Chapters [CD's are classified individually U-SRD; DTRA approval required]

Use of your STARS account will allow access to these as well as other holdings. If a reference is not yet digitized, DTRIAC will digitize it and provide the requester with an electronic copy of the requested information.

STARS - Scientific & Technical Information Archival and Retrieval System

STARS is DTRA's online searchable database containing information that supports DTRA's mission, such as documents, photographs, diagrams, numeric data, software, and videos.

STARS is comprised of two systems, each with its own userid and password. The unclassified system (STARS-U) is a subset of the overall digitized information and is accessible via the NIPRNet/Internet. Access is possible with the use of a government issued CAC or SecurID token (which is provided upon getting an account). The classified system (STARS-C) contains 100% of the digitized information and is accessible via the SIPRNet.

DTRIAC's holdings in STARS include over eight million pages with over 400,000 titles indexed by both author and title. STARS also holds in excess of 46,000 data sets and 3,000 photographs.

DTRIAC is actively adding digital files from its film library as the efforts to preserve and digitize these irreplace- able assets continue. In addition to the documents, databases, films and photographs, STARS has other tools to assist the researcher, such as:

- **Events:** An event is a test event summary of a weapons or high explosive test. It brings all the related information into single screen to allow detailed research.
- **Guides:** Guides provide information on a specific subject area (e.g., special-weapons effects testing, phenomena, test methods, operations, events, facilities, organizations, data systems).
- **Tables:** A table is a set of alphanumeric or numeric data values organized in rows and columns. Examples include data from spreadsheets or databases.
- **Diagram:** Consist of items such as blueprints, schematics and engineering drawings.
- **Numerics:** Numeric data is a digital representation of engineering or science data. Examples include wave form data recorded from an event or simulation, calibration data, and calculated results.

STARS
STi Archival and Retrieval System

INFORMATION ANALYSIS CENTER

REQUESTING A STARS ACCOUNT

To request a STARS account, contact the STARS Account Administrator at (505) 853-0854, DSN 263-0854 or via e-mail, DTRA-DTRIAC@mail.mil. Requirements for an account are: a visit request must be on file with DTRA Security, have a minimum of a SECRET clearance or higher and be briefed in on RD, CNWDI and NATO access, and have a DTRA sponsor (non-DTRA accounts only). Individuals interested in conducting research or writing journal articles can annotate this stipulation on their application. DTRA publishes an on-line journal which accepts manuscripts on a wide range of WMD-related topics.

Who We Serve

DTRIAC services are available to members of U.S. government organizations with a valid need-to-know. Contractors must have a government contract sponsor. In order to receive export-controlled data, your organization must be registered with the Defense Logistics Information Services (DLIS).

Visiting DTRIAC

A visit will be most productive if planned. Members of the DoD or DOE should contact DTRIAC directly. Government contractors should contact their contracting officers to coordinate a visit. All other visits require DTRA approval in advance. Be sure to specify your technical query, issue or problem and type of assistance desired in advance of your visit. E-mail: DTRA-DTRIAC@mail.mil

STI Support Center

Located in room 3880 of DTRA at Ft. Belvoir is the STI Support Center that provides ready access to DTRA personnel in the NCR. Access to both STARS systems is available. In addition, Research Assistants are on hand to help direct and refine inquiries.

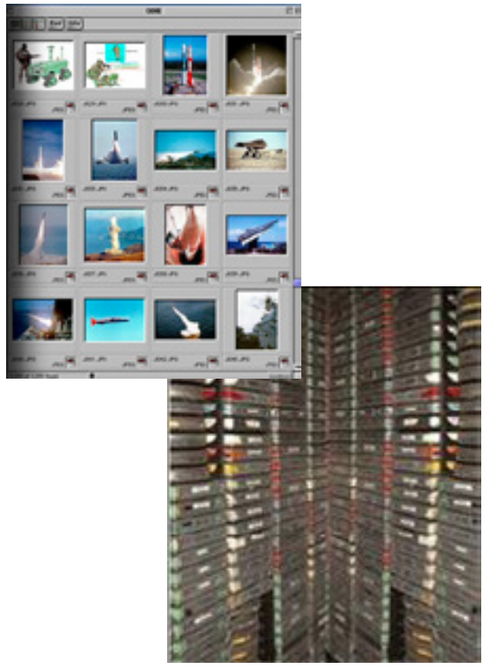
Contact Us

All public and media inquiries should be directed to the

Defense Threat Reduction Agency Office of Public Affairs:

Voice: (703) 767-5870
Fax: (703) 767-4450
Toll-free: (800) 701-5096
DSN: 427-5870
Email: dtra.belvoir.J0.mbx.dtra-public-affairs@mail.mil

DTRA/DTRIAC Program Manager / COR
Program Manager (505) 846-8673
COR (703) 767-2758



INDRAC

Another DTRA Knowledge Management Tool is INDRAC – A Web-based Reference Tool Addressing U.S. Government Combating Weapons of Mass Destruction (WMD) Responsibilities, Authorities, and Capabilities. The Interagency Combating WMD Database of Responsibilities, Authorities, and Capabilities (INDRAC) system is an interactive strategic level reference resource database (i.e. "Jane's for Combating WMD") of U.S. Government (USG) Departments and Agencies respective combating WMD (CWMD) responsibilities, authorities and capabilities. A nascent International capabilities reference is also available. A suite of online tools enables authorized users to search for and display information – both textually and graphically. An online document library, glossary, user help and user feedback tools, as well as system-wide statistics on data content, availability and usage are also available. INDRAC was not designed as a Global Force Management tool; it does not assess readiness or replace existing tasking processes or procedures. Instead, INDRAC serves as a strategic reference resource to inform operations and to serve as an aid to planning, advocacy, training and exercises to the USG CWMD community. All data content and associated functionality is based on information contained in each of approximately 1800 USG-wide INDRAC organizational records. A record includes authorities that assign CWMD responsibilities to the organization, what those responsibilities are, and what CWMD capabilities the organization has to fulfill its responsibilities (Fig1).

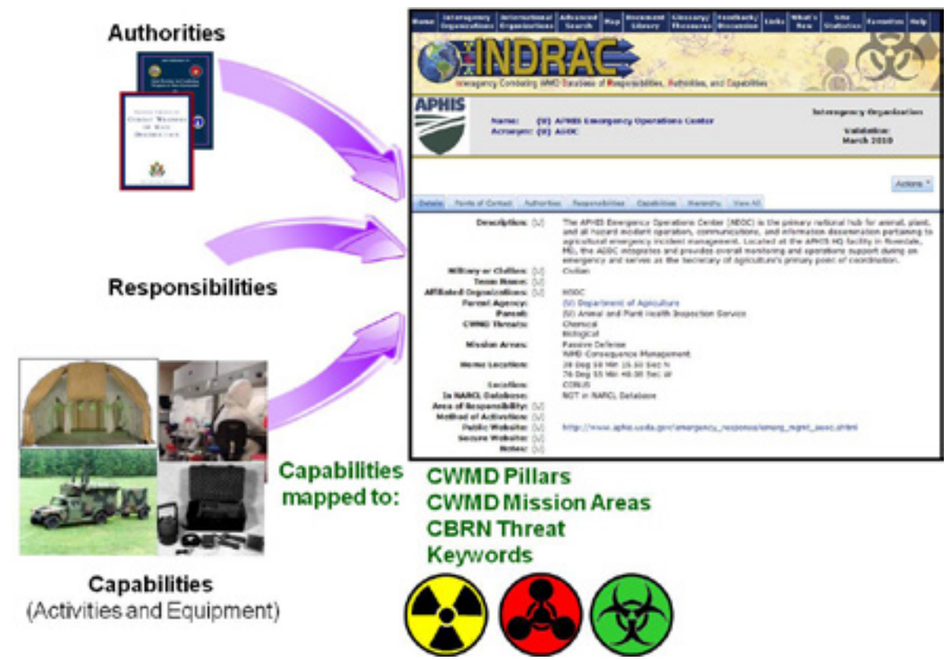


Figure 1. Example INDRAC organization record and content as contained within 5 principal tabs: Details (shown above), Points of Contact, Authorities, Responsibilities and Capabilities – both activities and equipment – are mapped to CWMD Pillars, Mission Areas, CBRN threats, and Keywords. The INDRAC system is operated by the Defense Threat Reduction Agency and U.S. Strategic

Command Center for Combating WMD. A key milestone was the National Security Council's endorsement of INDRAC for use by all USG Departments and Agencies as the CWMD reference resource system. The INDRAC-Team works continuously to improve and enhance system content and functionality.

For additional information contact INDRAC-Team@dtra.mil or INDRAC-Team@dtra.smil.mil and access the system directly at http://indrac.dtra.mil and indrac.dtra.smil.mil.

ADMINISTRATIVE ITEMS, FORMS & MAPS

How to Register for Classes

DNWS Registration and Course Administration Information

General information about DNWS is available on the DNWS web site https://dnws.abq.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 DOE 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 requires students to request access to the DNWS Learning Content Management System (LCMS). After receiving access to the LCMS, prospective students will complete Step 2 to register for courses. Returning students need only log in to the LCMS and complete Step 2.

Step 1 (New/Prospective Students)

Prospective students should click the link provided (https://dnws.abq.dtra.mil), select the "Register" 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 and email will be sent to 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.abq.dtra.mil), enter User ID and password in the spaces provided, and click ""Submit Credentials for Access." A "forgot my password" button is located at the bottom of this page if password is forgotten, all other login issues please call or email DNWS Registrars office. Once logged in, students may review transcripts, update profile information, browse the DNWS catalog and certification programs, register for courses or review existing course registrations, and take DNWS distance learning courses (no course registration required).

Organization/Service Branch Quotas

Some DNWS courses are subject to organization/service branch quotas; however, many classes have open seats. These non-allocated quotas are considered on a first come, first serve basis, and are open to any authorized student. To ensure that your registration is within your organization's quota, contact and coordinate your registration with your appropriate Formal Training Manager and Quota Manager.

Classified Course Security Clearance Requirements

Classified course registration requires additional information, including security clearance verification. The DNWS Course Registration Form and/or DOE Form 5631.20 (as appropriate), must be printed and endorsed by your organization's security manager/office. Please send the completed form(s) to the DNWS Registrar's Office by email, fax, or U.S. Mail. It is imperative that the DNWS Registrar's Office receive and verify security clearance information a minimum of 15 working days before the class start date. If the Registrar's Office does not receive clearance information within that timeframe, the student may not be approved to attend the desired course.

Email: dtra.kirtland.J10.mbx.dnws-registrar@mail.mil
Fax: Comm:(505) 846-9168 DSN: 246-9168
U.S. Mail: Defense Nuclear Weapons School
Attn. Registrar's Office
1680 Texas St. SE
Kirtland AFB, NM 87117-5669

Registering without Internet Access

Students complete the DNWS Course Registration Form (also found in the print catalog) and contact their organizational Formal Training Manager and Quota Manager to coordinate a reservation for a DNWS course. If the course is classified, adhere to the requirements found under Classified Course Registration Requirements.

Advanced Diagnostics Training Level I and Level II and JNEODC Special Requirements

DOD personnel registering for the ADT Level I/Level II and Joint Nuclear Explosive Ordnance Disposal Course (JNEODC) are required to submit a DOE Form 5631.20 to gain access to DOE facilities on Kirtland AFB.

Department of Energy (DOE) Requirements

DOE personnel wishing to register for any DNWS course must submit DOE Form 5631.20 via their appropriate channels.

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 Registrar's Office, as well as the DNWS web site (https://dnws.abq.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, he or she should call the DNWS Registrar's Office main line, (505) 846-5666 or DSN 246-5666, Monday–Friday, 0730–1630, Mountain Time or contact them by email, dtra.kirtland.j10.mbx.dnws-registrar@mail.mil.

Security Issues

All personnel entering the DNWS are required to show valid identification at the security desk and receive appropriate badging. As previously noted, specific courses may require a security clearance and some require special access. Each DNWS course has specific security requirements detailed in its catalog course description. For submission of electronic security clearance send visit request to:

JPAS SMO Code: GQDD614

ATTN: DNWS Registrar, TSgt Shalanda L. Capehart

DOD Personnel

DOD personnel attending classified courses submit clearance and access information on the DNWS Course Registration Form. JPAS is the primary verification site for DOD personnel security clearance and Visit Authorization Requests (VARs).

DOE Personnel

DOE personnel attending classified courses will complete and fax DOE Form 5631.20 and their Visitor Authorization Request (VAR) to DTRA Visitor Control (VC) HQ. DTRA VC HQ will review the information to ensure completion and to validate the DTRA Government POC. If information is incomplete, DTRA VC HQ will return the VAR to the individual for correction. When DTRA VC HQ validates the individual's information, DTRA VC HQ will input the information into Secure Access Browser within 24 hours to enable the DNWS Registrar Office to verify the required clearances.

DNWS conducts two courses, ADT Level I / Level II and JNEODC, that require DOD personnel to register for the course via the DNWS LCMS website or complete the DNWS course registration form (DTRA Form 34) and DOE Form 5631.20. Please see the "How to Register" section for more instruction. The DNWS Registrar's Office must receive security clearance information NLT 15 working days prior to class start date. Earlier is always better.

Electronic Equipment

Telephone lines with DSN access, are available for students to make and receive official telephone calls. Internet access at the DNWS is available for students on a limited basis. The Kirtland base library is available Monday through Thursday from 1000 to 1900, Fridays from 1000 to 1700, and Saturdays from 1300 to 1700, and can facilitate Internet access for student convenience.

Security procedures prohibit bringing personal electronic devices (such as but not limited to cellular telephones, pagers, personal digital assistants, cameras, thumb drives, or laptop computers) into the school.

Other DTRA Courses (Hosted) Specific instructions will be provided in the course invitation message.

NEW REQUIREMENT

Any (all) personnel attending in-residences course at the DNWS Schoolhouse are required to have a current Annual Cyber Security Training certificate. This certification is required so that users can utilize network resources for class work and survey purposes. Service members can find this training (as well as the certificate) on their service-specific training portal, State/Federal Agencies can forward their IA training certificate to the DNWS Registrar, or complete the DOD cyber training at:

http://iatraining.disa.mil/eta/cyberchallenge/launchpage.htm

Billeting/Transportation/Dining, Kirtland Air Force Base, New Mexico

Billeting on Kirtland AFB, NM

Individuals attending courses at the DNWS are responsible for their own billeting arrangements. Military personnel and Federal employees may make reservations by contacting the Kirtland AFB Billeting Office (Kirtland Inn) by calling (505) 846-9653 or DSN 246-9653 or by fax (505) 846-4142 or DSN 246-4142.

Military personnel of the rank of O-6 or above and civilian personnel at grade GS-15 or above should contact the Kirtland AFB Protocol Office at (505) 846-3894 or DSN 246-3894. The Kirtland Inn will accept reservations on base, if space is available. If space is not available, these individuals should make reservations at a local hotel at the government contract rate. The Kirtland Inn is the only agency that can issue statements of non-availability, and only if personnel make billeting arrangements through the Kirtland Inn office.

Arrival at Kirtland AFB, NM

Visitors without a military I.D. may need to obtain a visitor pass to enter Kirtland AFB. Individuals needing a pass should plan accordingly and, on the first day of class, arrive at one of the two Kirtland AFB Visitors' Centers located at the Gibson and Truman Gates at least 45 minutes prior to class start time. Please ensure you have a valid driver's license, proof of insurance, and vehicle registration or rental car agreement.

For your safety, please remember to observe all posted speed limits. Additionally, hands-free cell phone use, seat belt use, and valid driving insurance are required while driving on Kirtland AFB and the surrounding area.

Transportation to Kirtland AFB, NM

Kirtland AFB has limited taxi/transportation services. If staying at Kirtland AFB Billeting, On-base taxi service can be contacted at 505-846-8294. The Albuquerque International Airport is approximately five miles from the DNWS. On-base billeting is approximately three miles from the DNWS. A rental car is highly recommended.

Dining at Kirtland AFB, NM

All students are responsible for their own meals and should come to DNWS under full per-diem. Ample time is afforded to each student for meals. Kirtland AFB has several different options when it comes to meals and they are all located within a few miles of the school. These include an award-winning military dining facility, Main Exchange Food Court, Bowling Alley, Golf Course, McDonald's, and several other facilities just outside the base.

National Capital Region

Billeting in the National Capital Region (NCR) and Ft. Belvoir, VA

Individuals attending a DNWS course held in the NCR are responsible for their own billeting arrangements. Students should come to the NCR under full per-diem or plan to pay out-of-pocket expenses, as necessary.

Arrival into the NCR

Despite the fact that the majority of courses are taught at facilities outside a military base, students may want to visit one of the local military facilities. Students without a military I.D. may need a visitor's pass. To obtain a visitor's pass, proceed to the Visitor Center and please ensure you have a government identification card, a valid driver's license, proof of insurance, and vehicle registration or rental car agreement.

For your safety, please remember to observe all posted speed limits. Additionally, hands-free cell phone use, seat belt use, and valid driving insurance are required while driving within the NCR and surrounding area.

Transportation within the NCR

Two international airports service the NCR, Ronald Reagan Washington National (DCA) and Washington Dulles International (IAD). The airports are approximately 10-20 miles from DNWS instruction sites, distance dependent upon the airport and the identified instructional site. The NCR has unlimited taxi/transportation services; however, such service is expensive. A rental car is highly recommended.

Dining within the NCR

Students are responsible for their own meals, and instructors provide ample time during classes for student meals. The NCR offers a variety of dining options located within a few miles of the instruction sites.

DEFENSE THREAT REDUCTION AGENCY
COURSE REGISTRATION
**** For official use only. Privacy Act of 1974 applies ****

PRIVACY ACT STATEMENT

Authority: 5 USC 301, Departmental Regulations; 5 USC 4103, Establishment of Training Programs; 10 USC 1701, Management Policies; EO 11348, Providing for the further training of Government employees; 5 CFR part 410, Office of Personnel Management-Training; and EO 9397 (SSN).
Purpose(s): To determine applicant eligibility, as a record of attendance and training completion or elimination, as a locator, and a source of statistical Information.
Routine Use: Records may be disclosed outside the DoD as permitted under 5 USC 552a(b) of the Privacy Act to officials and employees of Government Agencies in the performance of their official duties related to training requirements and certification, screening and selection process to state and local Agencies to track, manage, and report on training and certification; also includes the DoD "Blanket Routine Uses."
Disclosure: Voluntary; however, failure to provide the information may tender applicant ineligible to enroll in the course.

INSTRUCTION: To register for one of our courses, please ensure this form is fully completed and forward to: DTRA, DNWS Registrar, 1680 Texas St SE, KAFB, Albuquerque, NM 87117-5669. You may also fax this form to commercial (505) 846-9168 or DSN 246-9168. Department of Energy (DOE) personnel must also fill out DOE Form 5631.20 to register. Registration and security clearance data must be received a minimum of 15 working days prior to class start date.

APPLICANT INFORMATION

NAME (Last, First, MI)		RANK / GRADE	SSN (Full SSN Required
SERVICE	AGENCY	DUTY TITLE	
UNIT MAILING ADDRESS (Organization, Street Number, Street Name, Installation or City, State, and Complete ZIP Code)			
UNCLASSIFIED WORK E-MAIL ADDRESS (REQUIRED)		DUTY PHONE DSN: Comm:	FAX NUMBER DSN: Comm:

SUPERVISORY POC (Enter name, e-mail, and telephone number (including area code) and name of individual who can be contacted after normal duty hours in the event of an emergency.

SUPERVISOR'S NAME (REQUIRED)	SUPERVISOR'S E-MAIL (REQUIRED)	SUPERVISOR'S TELEPHONE NUMBER (REQUIRED)

COURSE INFORMATION

COURSE TITLE / NUMBER	CLASS START DATE	CLASS END DATE

SECURITY CLEARANCE AND SPECIAL ACCESS – To be completed by Security Office Personnel

Some courses may require a security clearance and other special access. Refer to course descriptions for prerequisites. Security clearance must be received by the DNWS Registrar no later than 15 working days prior to class start date. To tour the NWIM, all students / visitors are required to have a DoD secret-level clearance with restricted data (RD) or critical nuclear weapons design information (CNWDI) access, or a DOE "Q" clearance with Sigmas 1-5. DOE personnel must use DOE Form 5631.20 to submit clearance information.

PLACE OF BIRTH:	DATE OF BIRTH:	CITIZENSHIP:

FOREIGN NATIONALS: Please provide your PASSPORT NUMBER here:

APPLICANT'S CLEARANCE LEVEL PLEASE ANNOTATE: S = SECRET TS = TOP SECRET Q = DOE TOP SECRET	DATE OF CLEARANCE
ACCESS – CHECK AUTHORIZED ACCESS ☐ NONE ☐ SIGMAS 1-5 ☐ RESTRICTED DATA (RD) ☐ CNWDI	ACCESS DATE

I certify that the above-named applicant requires access as indicated in this document in the performance of duty and that permitting such access will not endanger command defense and security.

SECURITY MANAGER'S TYPED OR PRINTED NAME		DUTY PHONE
SECURITY MANAGER'S SIGNATURE	SECURITY MANAGER'S UNCLASSIFIED E-MAIL ADDRESS	DATE

DTRA FORM 34 (JUN 10)

Request Letter to DNWS for Mobile Training Team Course

Your Organizational Letterhead

DATE

MEMORANDUM FOR DNWS/J10IES
ATTN: Registrar Office
1680 Texas St SE
Kirtland AFB, NM 87117-5669

SUBJECT: Request for DNWS Training Support/Mobile Training Team (MTT)

1. The following information is provided:

   a. Course/Training Requested: **(Name and course number)**
   b. Requesting Organization: **(Your organization's name)**
   c. Expected Audience: **(General background of audience and number of students)**
   d. Requested Time Period: **(Provide primary and at least two alternate dates, if possible)**
   e. Equipment available to support training: **(Your home station's assistance is appreciated)**
   f. Point of Contact / Resource Management Liaison: **(Provide POC to act as liaison between your organization and the DNWS staff for planning & accounting purposes, etc.)**
   g. Other: **(Address other specifics as required by the course, such as special clearances)**

2. My organization accepts responsibility for ensuring all personnel projected to attend the Training/MTT have proper security clearance and access to the MTT course. A consolidated list of students, to include full name, rank, social security number, and security clearance will be provided to the instructor(s) before the course begins.

3. My organization accepts responsibility for all expenses associated with this Training/MTT, including travel expenses/costs/shipping of equipment. Furthermore, we agree to provide administrative support as required. Funding and travel-order authorization letter for Training/MTT will be forwarded to the DNWS NLT 15 working days prior to class start date.

4. We understand that approval of this request is based upon availability of DNWS staff and training schedules.

5. Direct questions regarding the request to (Your organization POC and duty phone).

Signature Block
(O-5/GS-14 or Higher)

Funding Authorization Letter to DNWS for Mobile Training Team Course

Your Organizational Letterhead

DATE

MEMORANDUM FOR DNWS/J10IES
ATTN: Registrar Office
1680 Texas St SE
Kirtland AFB, NM 87117-5669

SUBJECT: Funding and Travel-Order Authorization for DNWS Training Support/Mobile Training Team (MTT)

1. Expenses are authorized for (Names of DNWS Personnel) to include but are not limited to transportation, billeting, meals, and rental car, as well as any other expenses authorized by the Joint Federal Travel Regulations.

   a. Fund Cite:
   b. Not-to-exceed amount for travel:

2. DNWS will submit the travel-order authorization, DD Form 1610 Request and Authorization for TDY Travel of DoD Personnel, through the Defense Travel System (DTS) and will cite the request- or funds as outlined in the letter of authorization.

3. Upon return from Temporary Duty Assignment (TDY), the traveler will prepare the DD Form 1351-2, Travel Voucher or Sub-voucher, and send to DNWS finance who will forward to the requesting agency for payment through DTS.

4. POC is _____ and duty phone is _____.

Signature Block
(O-5/GS-14 or Higher)

DOE F 5631.20
(7/90)
Formerly DP-277
EFG (7/90)

U.S. DEPARTMENT OF ENERGY
REQUEST FOR VISIT OR ACCESS APPROVAL
(Not to be used for temporary or permanent personnel assignments.)

OMB Control No. 1910-1800
BURDEN DISCLOSURE STATEMENT ON REVERSE OF PART 5

To:

PART "A"

Date:
Prepared by:
Symbol:
Telephone No. - Commercial
Fax:

From:

It is requested that the following person(s) be granted visit/access approval:

LAST NAME, FIRST, MIDDLE INITIAL AND SOCIAL SECURITY NUMBER	CHECK U.S. CITIZEN	CHECK ALIEN	DATE OF BIRTH	ORGANIZATION	TYPE CLEARANCE	CLEARANCE NO.	DATE OF CLEARANCE
	☐						

NAME OF FACILITY(IES) TO BE VISITED:	FOR THE INCLUSIVE DATES	DOE Security Official Verifying DOE Clearance

FOR THE PURPOSE OF:

TO CONFER WITH THE FOLLOWING PERSON(s):

SPECIFIC INFORMATION TO WHICH ACCESS IS REQUESTED:

Access requested to:
Restricted Data ☒ Yes ☐ No
Other classified info ☒ Yes ☐ No

Prior arrangements have/have not been made as follows:

CERTIFICATION FOR PERSONNEL HAVING DOD CLEARANCE

This certifies that the person(s) named above needs this access in the performance of duty and that permitting the above access will not endanger the common defense and security.

Authorized access to Critical Nuclear Weapon Design Information (CNWDI) in Accordance with DOD Directive 5210.2 ☒ **Yes** ☐ **No**

Name and Title, Requesting DOD Official

Title, Authorizing DOD Official
(See DOD Directive 5210.2 and 5210.8)

Signature
(See AR 380-150; OPNAV 5510.3F; AFR 2105-1)
By Direction

CERTIFICATION FOR PERSONNEL HAVING DOE CLEARANCE

This certifies that the person(s) named above needs this access in the performance of duty

Title

Requesting DOE or Other Government Agencies

Part "B"

Approval is granted with limitations indicated below:

Manager of Operations/or Headquarters Division Director

PRIVACY ACT INFORMATION STATEMENT

Collection of the information requested is authorized by Section 145 of the Atomic Energy Act of 1954, as amended (PL 83-703, 42 USC 2165). Compliance with this request is voluntary; however, if the information submitted is inadequate or incomplete, approval for your visit to a classified DOE facility, or your access to classified information may be delayed or withheld. The information you furnish will be used by DOE and DOE contractors to control access to classified information and areas.

The social security number is not required for these purposes, but you may voluntary furnish it to assist us in correct identification.

(Use your letterhead, if possible)

FROM: (Your Organization/Office Symbol)

SUBJECT: Request for Tour of the DTRA Nuclear Weapons Instructional Museum (NWIM)

TO: DTRA/DNWS
Registrar's Office
Attn: NWIM Tours
1680 Texas Street SE
Kirtland AFB, NM 87117-5669

Request a tour of the DTRA NWIM be provided for (number) people on (date) from (time) to (time) AM/PM.

It is understood that approval of our initial request is based upon DNWS course/ duty schedules and other requirements. Therefore, our alternative request date would be (date) from (time) to (time) AM/PM.

The purpose of this tour is to: (Provide the reason for the request, type of information desired, and need to know).

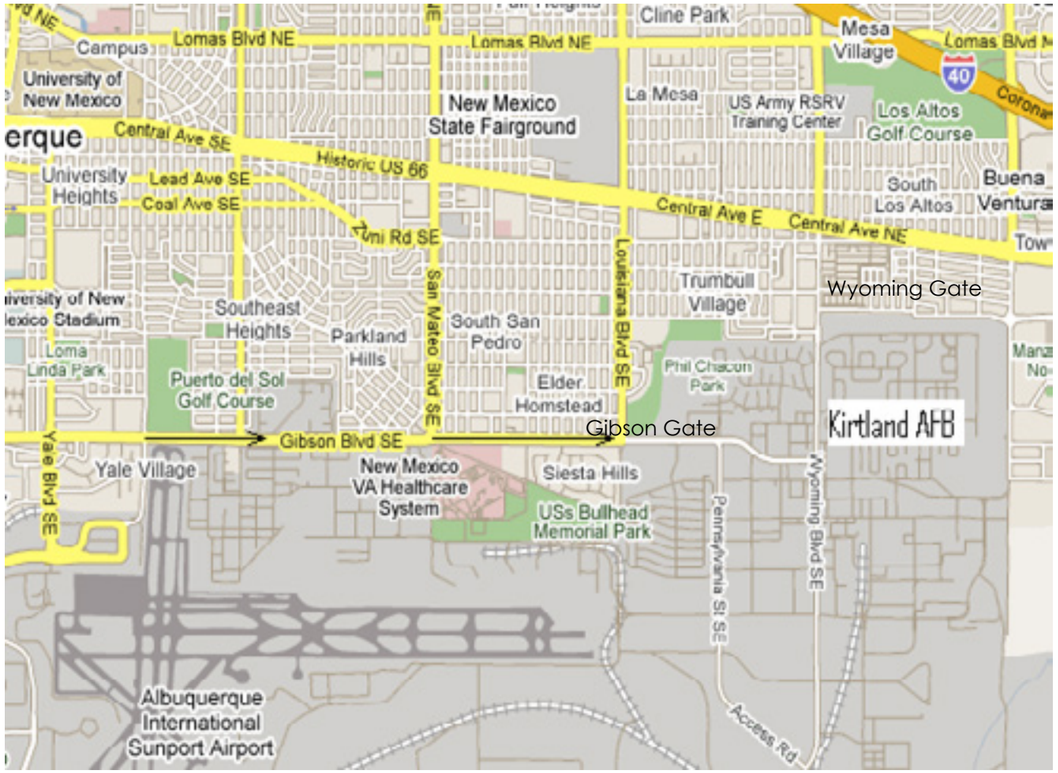
Clearance level of tour: Please enter UNCLASSIFIED or SECRET//RD or SECRET//RD-CNWDI. For example: SECRET//RD (S//RD) or S//RD-CNWDI; DOE Q.

I understand that my organization will be responsible for enensuring all personnel have a SECRET//RD clearance (CNWDI access for CNWDI tours). We will provide an official signed visit request for all tour attendees to the DNWS Registrar's Office at Fax number 505-846-5560 no later than 15 working days before the scheduled tour date. This official visit list will include: full name, social security number, date of birth, security clearance/access, and date of clearance.

Our primary point of contact for this request is (Name/Duty Phone/e-mail address). Please coordinate any changes to this request with this individual.

(Requesting Official)
Telephone Numbers: Commercial/DSN/Mobile

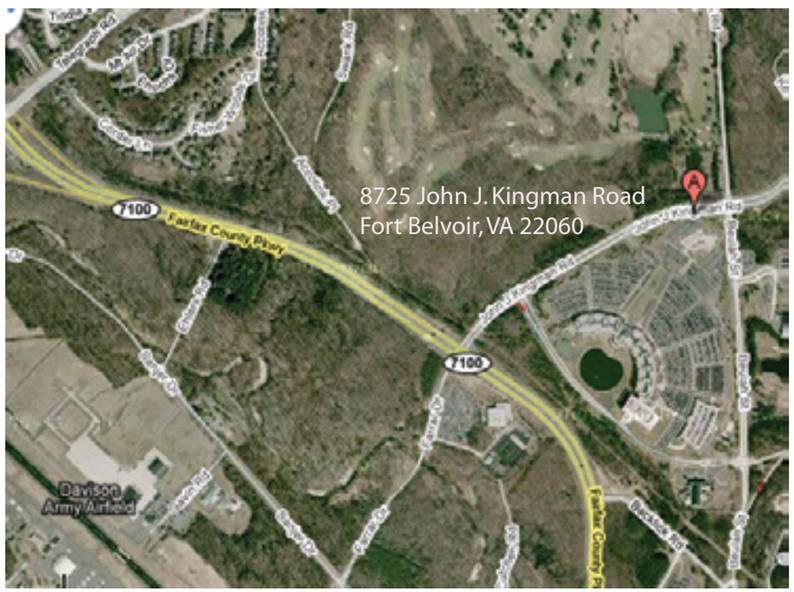
Map to DNWS, Kirtland AFB, Albuquerque, NM



From the Airport, take Yale north and turn right onto Gibson Boulevard. Head east to Gibson Gate; Gibson Gate is open 24/7. Once past the gate, drive east until you reach the intersection of Gibson Blvd and Wyoming Blvd. Turn right and drive south until you pass Kirtland Federal Credit Union, which will be a small building on your left just past K Avenue. Turn left into the parking lot. The address is 1900 Wyoming Blvd. Please note: the building is labeled ***1900***, not ***20602***. There is a sign on Wyoming Blvd.

Administrative Items, Forms and Maps

Map for DTRA Ft. Belvoir VA



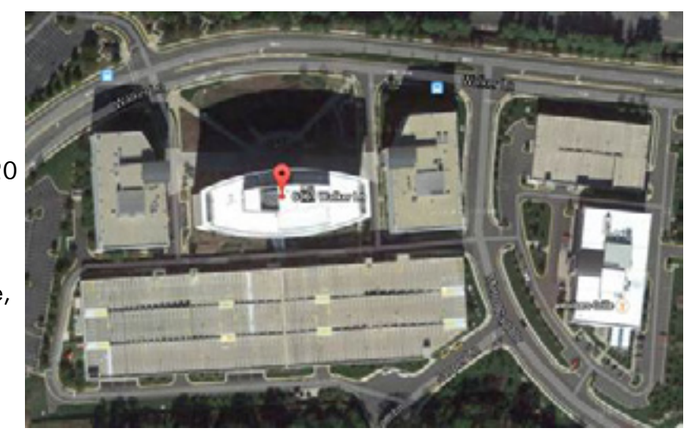
Take Fairfax County Parkway to the intersection of John J. Kingman Road. Turn right off of John J. Kingman Road into the parking lot accessway. Note that there are security guards who will issue you a pass. Park in designated areas only.

DTRA is a secured facility. You will require permission to enter the building; please see Security at the entrance.

Map for HQ DTRA CBRNE M&S Training Center Alexandria, VA

CBRN Classes taught at
DTRA CBRNE M&S Training Center
6361 Walker Lane, Suite C120
Alexandria, Virginia 22310
(517) 303-2171

Large-scale-area map above, close-up map at right.



DEFENSE THREAT REDUCTION AGENCY
UNITED STATES OF AMERICA

DEFENSE NUCLEAR WEAPONS SCHOOL
ALBUQUERQUE NEW MEXICO

www.dtra.mil

https://dnws.abq.dtra.mil