

Chemical, Biological, Radiological and Nuclear Advanced Leaders Course (CBRN ALC) Phase I Syllabus

Security Clearance: Unclassified

Students in this course do not require a Security Clearance

Course Length- Weeks: 2 Days: 0 Hours: 120 Training Days: 12 Training Weeks: 6

Total Academic Hours: 112.0

Purpose: Utilizes small group instruction to prepare the Chemical Corps (CMF 74D) Junior Noncommissioned Officer's to train and lead Soldiers in unified land operations. Training is directed at the squad and battalion staff levels.

Phase Scope: Students will be proficient CBRN NCO's that think critically, solve problems, work as a team, and can communicate effectively orally and in writing. They will be confident in their abilities to advise commanders and staff on CBRN Operations. They will be life-long learners that are technically proficient in: conducting WMD counterforce operations (site exploitation), employing obscurants, conducting CBRN defense, providing technical CBRN expertise (OPRAD, Nuclear, staff, and CBRNWRS), and conducting CBRN consequence management (CBRN Enterprise).

Phase Prerequisites: Active Army or reserve component (RC) enlisted personnel in the 74D Career Management Field (SSG or SGT promotable).

Soldiers must be Basic Leaders Course (BLC) graduates.

Soldiers attending the CBRN ALC must be IFSAC, ProBoard, or Department of Defense (DOD) Firefighter HAZMAT Awareness Certified. The certificate must be presented to the Senior or Small Group Leader during in-processing. The Awareness Training can be accessed at <https://afcec.adls.af.mil> or <http://totalforcevlc.golearnportal.org/>

Soldiers must have a completed pre-execution check list, SIGNED BY THE UNIT COMMANDER, upon arrival at ALC. Soldiers who do not have the required pre-execution checklist within the time frame allocated in TRADOC Reg 350-18 will be returned to their units.

New Requirement IAW AR 350-1, Appendix K. Effective 1 September 2013, ALC and SLC students are required to initiate their MSAF360, at <http://msaf.army.mil/LeadOn.aspx> , NLT 45 days prior to their report date and bring their MSAF360 results to the course.

Soldiers must complete either ALC Common Core (CC) or Structured Self Development (SSD) 2 to be considered an ALC graduate. Effective 1 OCT 2014, SSD 2 or ALC CC is a prerequisite to attend the CBRN ALC. Reference: SSD ALARACT 126/2014 Change 2.

Special Information: Phase I of ALC may be exempted if a Soldier is already HAZMAT Operations and Technician certified with an IFSAC Certificate and Seal #. The certification must be from IFSAC, ProBoard, or Department of Defense (DOD) Firefighter Certification Systems. Soldiers that are eligible to be exempted from phase 1 may register for phases 2 and 3 of CBRN ALC with an approved DA Form 4187 from Soldier first O5 in their chain of command.

Phase Remarks: HAZMAT Operations and Technician Level certification is a graduation requirement.

Foreign Disclosure: FD1 - The materials contained in this course have been reviewed by the course developers in coordination with the USACBRNS, Foreign disclosure representative and MSCoE foreign disclosure authority. This course is releasable to students from all requesting foreign countries without restrictions.

Preparation: IT is strongly encouraged that in addition to completing the HazMat Awareness prerequisite, that the Operations and Technician level training be completed as well. Both classes will aid in understanding and becoming familiar with course materials throughout Phase I. Both classes can be taken at <http://totalforcevlc.golearnportal.org/>.

Course Map:

Module A – Administrative

- In-processing
- Out-processing

Module B – Conduct CBRN CM/Respond to CBRN Incidents

- Hazardous Materials Operations
- Hazardous Materials Technician 1
- Hazardous Materials Technician 2

Demonstrated Abilities:

Contribution to Group Work (12d, DA Form 1059) – Participate in group discussions and HazMat performance exercises

Research Ability (12e, DA Form 1059) – Based on all HazMat exams

NOTE: Written communication, oral presentation, and leadership skills will be evaluated during phase 2 and 3

Hazardous Materials Operations Exam – must achieve 80% and above

NOTE: No notes or references allowed

Hazardous Materials Technician 1 Exam – must achieve 80% and above

NOTE: No notes or references allowed

Hazardous Materials Technician 2 Exam – must achieve 80% and above

NOTE: No notes or references allowed



ANTONIO LEONVEGA
1SG, USA
Course First Sergeant

Chemical, Biological, Radiological and Nuclear Advanced Leaders Course (CBRN ALC) Phase II Syllabus

Security Clearance: Unclassified

Students in this course do not require a Security Clearance

Course Length- Weeks: 2 Days: 0 Hours: 136 Training Days: 12 Training Weeks: 6

Total Academic Hours: 128.0

Purpose: Utilizes small group instruction to prepare the Chemical Corps (CMF 74D) Junior Noncommissioned Officer's to train and lead Soldiers in unified land operations. Training is directed at the squad and battalion staff levels.

Phase Scope: Students will be proficient CBRN NCO's that think critically, solve problems, work as a team, and can communicate effectively orally and in writing. They will be confident in their abilities to advise commanders and staff on CBRN Radiological and Nuclear Operations. They will be life-long learners that are technically proficient in: conducting WMD counterforce operations (site exploitation), conducting CBRN defense, providing technical CBRN expertise (OPRAD & Nuclear) and conducting CBRN consequence management (CBRN Enterprise).

Phase Prerequisites: Active Army or reserve component (RC) enlisted personnel in the 74D Career Management Field (SSG or SGT promotable).

Soldiers must be a CBRN ALC Phase I graduate or have an approved by HRC and received academic credit for Phase I.

Soldiers attending the CBRN ALC must be IFSAC, ProBoard, or Department of Defense (DOD) Firefighter HAZMAT Awareness, Operations, and Technician Certified. The certificate must be presented to the Senior or Small Group Leader during in-processing.

Soldiers must have a completed pre-execution check list, SIGNED BY THE UNIT COMMANDER, upon arrival at ALC. Soldiers who do not have the required pre-execution checklist within the time frame allocated in TRADOC Reg 350-18 will be returned to their units.

New Requirement IAW AR 350-1, Appendix K. Effective 1 September 2013, ALC and SLC students are required to initiate their MSAF360, at <http://msaf.army.mil/LeadOn.aspx> , NLT 45 days prior to their report date and bring their MSAF360 results to the course.

Soldiers must complete either ALC Common Core (CC) or Structured Self Development (SSD) 2 to be considered an ALC graduate. Effective 1 OCT 2014, SSD 2 or ALC CC is a prerequisite to attend the CBRN ALC Phase 1. Reference: SSD ALARACT 126/2014.

Foreign Disclosure: FD1 - The materials contained in this course have been reviewed by the course developers in coordination with the USACBRNS, Foreign disclosure representative and MSCoE foreign disclosure authority. This course is releasable to students from all requesting foreign countries without restrictions.

Preparation: The following references can be reviewed to prepare for Phase II. FM 3-11.3, FM 3-11.5, ATP-45E, and FORSCOM Reg 385-1.

Course Map:

Module A – Administrative/Mandatory

- In-processing
- Out-processing
- Resilience

Module B – Provide Technical CBRN Expertise/Basic Radiation Safety

- Regulatory Structure for radiation Safety
- Radiation Basics
- Quantities and Units
- Biological Effects of Radiation
- Principles of Radiation Detection
- Operate AN/VDR-2
- Operate AN/PDR-77
- Operate UDR 13-14
- Operate AN/PDR-75
- Maintain Dosimetry Program
- Applied Radiation Safety
- Survey Work Areas
- Hazards and laser/RF exposure
- Control of Laser and RF Emitters
- Maintain Tritium Devices
- Perform Leak Test
- Radiological Emergencies
- Duties of RSO
- Depleted Uranium General Awareness Training

Module C – Provide Technical CBRN Enterprise/Nuclear and Radiological

- Provide Technical Advise on Nuclear Weapon Effects
- Provide Technical Advise on Battlefield Radiological Hazards
- Advise Commander and Staff on operational Exposure Guidance

Module D – Conduct CBRN Defense/Unit Radiation Exposure

- Calculate Time of Entry (TE)/Time of Stay (TS) for Fallout Areas
- Calculate Optimum Time of Exit for Fallout Areas
- Determine Radiation Decay Factors
- Compute Total Dose for Fallout Area
- Calculate Neutron-Induced Radiation Hazards
- Control Unit Radiation Exposure

Module E – Conduct CBRN CM/CBRN Enterprise

- Phase II Assessment
- Phase II Assessment Critique

Module F – Phase II Culminating Event

- STX

Demonstrated Abilities:

Written Communication (12a, DA Form 1059) – Formal Military Memorandum

Oral Communication (12b, DA Form 1059) – Student Lead Discussion

Leadership Skills (12c, DA Form 1059) – Conduct In-Ranks Inspection, Conduct Physical Readiness Training Evaluation, or Leadership Position

Contribution to Group Work (12d, DA Form 1059) – Participate in Group Discussions and STX

Research Ability (12e, DA Form 1059) –

Basic Radiological Safety Exam – must achieve 80% and above

Operational Aspects (NUC II) Exam – must achieve 80% and above

A handwritten signature in black ink, appearing to read 'Antonio Leonvega', enclosed within a large, stylized circular flourish.

ANTONIO LEONVEGA
1SG, USA
Course First Sergeant

Chemical, Biological, Radiological and Nuclear Advanced Leader Course (CBRN ALC) Phase III Syllabus

Security Clearance: Unclassified

Students in this course do not require a Security Clearance

Course Length- Weeks: 2 Days: 0 Hours: 126 Training Days: 12 Training Weeks: 6

Total Academic Hours: 100.0

Purpose: Utilizes small group instruction to prepare the Chemical Corps (CMF 74D) Junior Noncommissioned Officer's to train and lead Soldiers in unified land operations. Training is directed at the squad and battalion staff levels.

Phase Scope: Students will be proficient CBRN NCO's that think critically, solve problems, work as a team, and can communicate effectively orally and in writing. They will be confident in their abilities to advise commanders and staff on CBRN Operations. They will be life-long learners that are technically proficient in: conducting WMD counterforce operations (site exploitation), employing obscurants, conducting CBRN defense, providing technical CBRN expertise (OPRAD, Nuclear, staff, and CBRNWRS), and conducting CBRN consequence management (CBRN Enterprise).

Phase Prerequisites: Active Army or reserve component (RC) enlisted personnel in the 74D Career Management Field (SSG or SGT promotable).

Soldiers must be a CBRN ALC Phase II graduates.

Soldiers attending the CBRN ALC must be IFSAC, ProBoard, or Department of Defense (DOD) Firefighter HAZMAT Awareness, Operations, and Technician Certified. The certificate must be presented to the Senior or Small Group Leader during in-processing.

Soldiers must have a completed pre-execution check list, SIGNED BY THE UNIT COMMANDER, upon arrival at ALC. Soldiers who do not have the required pre-execution checklist within the time frame allocated in TRADOC Reg 350-18 will be returned to their units.

New Requirement IAW AR 350-1, Appendix K. Effective 1 September 2013, ALC and SLC students are required to initiate their MSAF360, at <http://msaf.army.mil/LeadOn.aspx> , NLT 45 days prior to their report date and bring their MSAF360 results to the course.

Soldiers must complete either ALC Common Core (CC) or Structured Self Development (SSD) 2 to be considered an ALC graduate. Effective 1 OCT 2014, SSD 2 or ALC CC is a prerequisite to attend the CBRN ALC. Reference: SSD ALARACT 126/2014 change 2.

Phase Remarks: HAZMAT Operations and Technician Level certification is a graduation requirement.

Foreign Disclosure: FD1 - The materials contained in this course have been reviewed by the course developers in coordination with the USACBRNS, Foreign disclosure representative and MSCoE foreign disclosure authority. This course is releasable to students from all requesting foreign countries without restrictions.

Preparation: The following references can be reviewed to prepare for Phase III. ATP 5-19, ATP 3-11.36, FM 3-11, FM 3-11.3, FM 3-11.5, ATP 3-11.37, ATP 3-11.46, TM 3-11.42,

Course Map:

Module A – Administrative/Mandatory Training

- In-processing
- Out-processing
- Graduation
- CBRN Risk Management (DL)

Module B – Provide Technical CBRN Expertise

- CBRN Assets
- Advise Commander on CBRN Reconnaissance
- CBRN Staff Functions
- Advise Commander on Status of CBRN Defense Operations
- Provide Technical Advise on CWA Precursors

Module C – Conduct CBRN Defense/Reconnaissance

- Plan CBRN Reconnaissance
- Plan CBRN Survey
- Plan CBRN Sampling Operations
- Supervise Chemical and Biological Sampling Operations

Module D – Conduct CBRN Defense/Decontamination

- Plan Decontamination Operations
- Plan Mass Casualty Decontamination
- Supervise Detailed Equipment Decontamination

Module E – MCT

- CBRN SOP Development

Module F – MCT

- Mask Confidence Training (MCT)

Module G – Provide Technical CBRN Expertise/CBRN Digital Systems

- Analyze CBRN Hazards Using Digital Systems

Module H – End of Phase III Assessment

- Phase III Assessment
- Phase III Assessment Critique

Module I – Phase III Culminating Event

- CDTF
- Phase III STX and or CPX

Demonstrated Abilities:

Written Communication (12a, DA Form 1059) – Chemical Corp History Paper (APA Format)

Oral Communication (12b, DA Form 1059) – Student Lead Discussion

Leadership Skills (12c, DA Form 1059) – Leadership in Garrison/Tactical Environment

Contribution to Group Work (12d, DA Form 1059) – Participate in Group Discussions and contribution during group exercises for STX and or CPX

Research Ability (12e, DA Form 1059) – CBRN Staff Exam – must achieve 80% and above

A handwritten signature in black ink, appearing to read 'A. Leonvega', enclosed within a large, loopy oval scribble.

ANTONIO LEONVEGA
1SG, USA
Course First Sergeant