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Training Insights

BY LARRY MIZE



Larry Mize graduated from Xavier University with a Bachelor of Science in Mathematics in 1973. He entered active service in the United States Navy serving a career specializing in Naval Intelligence, Aircraft Carrier Operations, Naval Special Warfare (SEALs), and Space Operations. He attended French language training at the Defense Language Institute and subsequently served as the U.S. Navy Liaison Officer to the Commander French Forces Indian Ocean/French Foreign Legion/Commandos Marine in Djibouti. He attended Naval Postgraduate School and was awarded a Master of Science in Space Systems in 1986, subsequently serving at U.S. Space Command and U.S. Strategic Command. Mize is currently Chief of Space and Ground-based Midcourse Defense Education Training.

2008 Space Operations Officer Qualification Course Schedule

- S00QC 08-01 June 9 – Aug. 15, 2008
- S00QC 08-02 Sept. 15 – Nov. 21, 2008

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2008 FA40 Space Operations Officer Qualification Courses (SOOQC)

Space Operations Officer Qualification Course 08-01 is scheduled for June 9 – Aug. 15 in Colorado Springs, Colo., and will be followed by Space Operations Officer Qualifications Course 08-02, Sept. 15 – Nov. 21. Every year has experienced increased student throughput and 2008 represents the most significant thus far since Space Operations Officer Qualifications Course training began in 2001. Both 2008 courses will maximize student throughput with 28 students in attendance. These increased numbers in 2008 are a result of thirteen former U.S. Air Force officers that have transitioned to Army service as FA40s and new Career Field Designated FA40s now accessed as Army Captains at the seven-

year mark. In preparation of the 2008 bow wave, Future Warfare Center Directorate of Combat Development programmed classroom capital improvements have now been completed. Capital investments consisted of new student workstations with dual screen monitors that will better facilitate systems and software learning, an instructor control and monitoring station at the podium for enhanced instructor led training, upgraded hardware/software installs to handle the increased technologies associated with new Space analytical tools, and a new workstation configuration floor plan to facilitate small group instruction, self-paced development, practical exercises and traditional lecture.

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Future Warfare Center Director of Combat Development Conducts Resident Army Space Cadre Enabler Training

Following successful pilot courses during 2007 in Huntsville and Colorado Springs, Future Warfare Center Directorate of Combat Development conducted the first formal 2008 iteration of Army Space Cadre Enabler residence training with its Army Space Cadre Enabler Basic Course Feb. 25-29 in Huntsville, Ala. This training was hosted by the Technology Center and attended by 75 Research, Development and Acquisition, Future Warfare Center, G-staff personnel and invitees from Program Executive Office Missiles and Space, NASA, Aviation and Missile Command and other Redstone Arsenal organizations. This 40-hour course provides Space operations funda-

mentals training with instruction at the unclassified, secret and Top Secret/SCI levels. The POI covers Law; Policy; Doctrine; Organizations; Orbital Mechanics; Launch; Rendezvous; Spacecraft Subsystems and Design; Acquisition; Telemetry, Tracking and Control; Satellite Systems-SATCOM; Missile Warning; Global Positioning System; Intelligence, Surveillance and Reconnaissance; Meteorological and Oceanographic; Space Environment; and Threats. To support the Colorado Springs Army Space Cadre Enabler training, this 40-hour course was held Apr. 14 - 18 in Building 3.

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Future Warfare Center

Directorate of Combat Development

— DELIVERS ONLINE SPACE TRAINING

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The Future Warfare Center Directorate of Combat Development Army Space Cadre Training Development Team has been assigned the responsibility to formulate a strategy and execute a plan that identifies gaps in Space training and to fill those gaps by providing appropriate training. Training could be in the form of resident training, online training, distributed learning (dL), computer-based training (CBT), Web-based training (WBT), books, or other Space training literature or modules. The Directorate of Combat Development Cadre Training Development Team has made available initial Space distributed learning training consisting of modules in two basic courses: "Space Awareness" and "Army Space Cadre Basic Course." Distributed learning opportunities from outside the command are available as well, such as from the National Reconnaissance Office and the National Security Space Institute.

The Space Awareness Course lessons consist of (1) an introduction and overview, (2) characteristics of Space systems, (3) force enhancements, (4) contributions to the warfighter, and (5) foreign Space systems. The Army Space Cadre Basic Course contains lessons on: Global Positioning System, Orbital Mechanics, the Space Environment and SATCOM Fundamentals. Both of these courses are on the Army

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Learning Management System Web site. To get to the site log into Army Knowledge Online (AKO) then click on 'My Training' under the Self Service drop down Menu or use the link, <http://www.lms.army.mil/> and you will be directed to log into your AKO account. Once on the Learning Management System site, on the right side of your screen click on the 'catalog search' box and type the full name of the lesson you want to take. It is important that you type the full name of lesson as listed below otherwise your search will not return any lessons. The lesson information will appear on your screen. Click on 'Register,' this will register you into the lesson. After you are registered you can click on 'Launch Content' and you can begin taking the lesson. If you need to leave and come back to the lesson, you can. Once logged back into the Army Learning Management System Web site your lesson enrollments will appear in the 'Current Enrollments' area of your welcome page (lower right side). Click on 'Launch Now' of the lesson you want to continue and then you can go to the next module of the lesson.

These two courses can also be found on AKO. Access them by first going to the Future Warfare Center Directorate of Combat Development Training Web site at: <http://www.smdc.army.mil/2008/FWCTrainingDiv.asp> under the "AKO Folders."

Click on the lesson/course you want to take. You will be prompted to log into AKO. Once logged into AKO you will be at the lesson folders. You will have to SAVE each individual file to your hard drive, and then unzip the file. The files are made to play in MicroSoft Internet Browser 5.5 SP1 and later. Click on the index.html file to start the program. You should take the lesson in the order of the 'Read me First.txt' located with the lesson files.

The NSSI is offering 16 hours online and the courses are located at NIPR: <https://halfway.peterson.af.mil/nssi/cbts/index.htm>. The National

Security Space Institute courses available are: Space History – SPI 270 (Approximately two hours to complete), Orbital Mechanics – SPS 271 (Approximately three hours to complete), Space Environment – SPS 270 (Approximately three hours to complete), Global Positioning System – GPS 270 (Approximately three hours to complete), SATCOM – COM 271 (Approximately two hours to complete), and Introduction to Department of Defense Acquisition – ACQ 270 (Approximately three hours to complete).

The National Reconnaissance Office is offering 18 hours online and are located at SIPRNET <http://cleon.NRO.smil.mil> or JWICS <http://cleon.NRO.ic.gov>

The courses offered are as follows: The National Systems Information Course (Approximately six and a half hours to complete), Joint Tactical Exploitation of National Systems (Read Manual), Space 300 (National Systems Overview) Course (Approximately three hours to complete), Space Enabled Warfighter Operations Course (Approximately one and a half hours to complete), Commercial Remote Sensing Overview Course (Approximately one hour to complete), Introduction to Imagery Intelligence Course (Approximately 20 minutes to complete), Introduction to Electronic Intelligence in Fusion Analysis Course (Approximately three hours to complete), Mini Transmitter Overview Course (Approximately 30 minutes to complete), and Compact Disk-Space Education Tool (Approximately two hours to complete). 

For questions regarding on going Army Space Cadre Training Development efforts please contact Thomas Coleman thomas.coleman@smdc-cs.army.mil at (719) 554-4541, DSN 692.

Future Warfare Center Directorate of Combat Development

— PILOTS SENSOR MANAGER QUALIFICATION COURSE

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With initial fielding of the AN/TPY-2 (Forward Based Mode/FBM) radar, the Army was designated lead-service for the AN/TPY-2 (FBM) radar in February 2006. SMDC Future Warfare Center-Directorate of Combat Development (FWC-DCD) has been involved in the development of a qualification course for the radar sensor managers for the last year and a half. Following the U.S. Training and Doctrine Command Systems Approach to Training process, a critical task selection board was held on Fort Shafter, Hawaii, in February 2007. The board selected 23 critical tasks which were approved by U.S. Army Space and Missile Defense Command's Deputy Commanding General for Operations in May 2007. Following the approval of the 23 critical tasks, FWC DCD worked jointly with the 94th Army Air and Missile Defense Command in conducting task analysis of the 23 critical tasks. From the task analysis, Task Analysis Reports and Lesson Outlines were written. Missile Defense Association DFOT provided two full-time instructors/training developers in February 2008 to assist with the development of the lesson plans and presentation material. In April 2008, a validation course was conducted at U.S. Strategic Command Headquarters at Offutt Air Force Base, Neb., with four students from SMDC, the 94th Army Air and Missile Defense Command, and Joint Functional Component Command-Integrated Missile Defense. The validation course produced significant comments and feedback which will allow improvements to be made to the presentation material prior to the first offering of the Sensor Manager Qualification Course in July 2008. Follow-on Qualification Courses will be taught on a semi-regular basis, in order to meet the needs of the Army and supported Combatant Commands and organizations.

The role of the Army Sensor Managers is to remotely operate the AN/TPY-2 (FBM) radar by using the Command and Control, Battle Management and Communications system, in addition to providing situational awareness of other Ballistic Missile Defense assets to multiple combatant commands. Through Command and Control, Battle Management and Communications, the Sensor Manager can adjust or change the operational status of the radar, as well as the Mission Profiles and/or Focused Search Plans. The AN/TPY-2 (FBM) radar supports both Ground-Based Missile Defense (GMD) and Ballistic Missile Defense missions by providing classification and discrimination level track data. The track data is fed to both the GMD Fire Control system, as well as Command and Control, Battle Management Communications.

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SMDC and MDA sign Agreement to Transition GMD Operator Course

Larry Burger, Director of U.S. Army Space and Missile Defense Future Warfare Center, and BG Gary Conner, Program Director of the Ground-Based Midcourse Defense Program Office of the Missile Defense Agency signed an agreement on Feb. 22, for the transition of the GMD Operator Course to the Army. The course is one of six courses taught at the Missile Defense Agency's GMD Training and Exercise Center in Colorado Springs, Colo. Army Operators from the 100th Missile Defense Brigade and the 49th Missile Defense Battalion have been attending the eight-week course since 2003 to qualify as GMD Operators. The Future Warfare Center's Directorate of Combat Development provides a Contracting Officer's Representative to the GMD Training and Exercise Center with responsibility also as the GMD Operator Course Manager. Army GMD Operators receive a unique ASI T3 (Additional Skill Identifier) following completion of the Operator Course. Future Warfare Center and Missile Defense Agency view this as a positive step of limited transition that will lead to further transition initiatives of GMD Training and Exercise Center training to the Army.