APPENDIX C
EMBEDDED CURRICULA

SENIOR WATCH OFFICER (SWO) COURSE

Course Objective: This course is designed to familiarize senior aviators and C-3 officers (0-5, 0-6) with the agencies and equipment used to command and control Marine Aviation. An added benefit of the curriculum is to enhance the commander's knowledge and ability to conduct combat operations in the context of the Six Functions of Marine Aviation. Further, the Marine command and control system will be examined in the broader context to gain a better understanding of its involvement in the Joint Air Command and Control System. The following areas will be covered in detail:

1. How the Marine Air Command and Control System (MACCS) supports the Tactical Air Commander's (TAC's) ability to integrate and execute the six functions of Marine aviation.
2. TAC's relationship with the SADC, the DASC SAD, and other key individuals within the MACCS in the execution of ACE operations.
3. Aviation asset management, to include aircraft, MACCS agencies, and Ground Based Air Defense (GBAD) elements.
4. Intelligence systems available and how the aviation intelligence process provides information to the TAC.
5. How the Tactical Air Command Center (TACC) operates and the various mediums by which information is displayed within the TACC.
6. TACC crewmember responsibilities and how these crew members facilitate situational awareness and the implementation of decisions.
7. The TAC's relationship with the JFACC and other service components that comprise the Theater Air/Ground System (TAGS).
8. How the MACCS ties into the integrated combat airspace command and control system (ICAC2)
9. The systems and process for display and generation of the Common Tactical/Operational Picture.

Length: 20 classroom hours, 6-10 TACC hours. This does not include the time required during the planning, briefing, and debriefing process.

Notes: None.

Prerequisites: Rank: LtCol-Col MOS 75XX/72XX

Academic Syllabus:

1. Control of Aircraft and Missiles (U)
2. The Tactical Air Command Center (TACC) (U)
3. ATARS (S)
4. JDAM/JSOW Targeting Requirements (S)
5. EA-6B ISO MAGTF OPS (S)
6. AC2W/ISR (S)

7. Information Management (S)
8. ROE (U)
9. Joint Air Operations (S)
10. Theater Air Ground System (S)
11. TRAP (U)
12. MAGTF and National ISR Employment (S)
13. Theater Battle Management Core System (TBMCS) Overview (U)
14. MACCS Tour (U)
15. Joint Training Seminar (U)
16. Theater Missile Defense (S)
17. Guest Speakers from the Marine Corps and Joint Services who have served as an ACE Commander or who have participated on a JFACC staff.

Flight Syllabus: The flight phase of the SWO Course is integrated into the WTI flight evolutions. Each SWO student will participate in one of three training windows. The intent of the TAC flight phase is to balance system exposure with the minimum time required to accomplish objectives. The SWOs will serve as the ACE Commander for planning, briefing, execution, and debriefing during the training window they attend. The windows are as follows:

1. AAW Window. This evolution comprises three days of training: AAW-1/2 planning day, AAW-1 flight day, and AAW-2 flight day.
2. OAS Window. This evolution comprises three days of training: OAS-1 through 4 are not conducive to SWO training. The three training days are one OAS-5/6 planning day with a two flight days.
3. FINEX Window. This evolution comprises five days of training: FINEX-1 plan day and flight day, FINEX-2 plan day and execution day, followed by a full debrief day and course graduation.

MAWTS-1 ACE BATTLESTAFF OFFICER'S COURSE

Course Objective: The ACE Battlestaff Officers Course has been developed for the Naval Aviator/Naval Flight Officer who is now serving or has the potential to serve in the Tactical Air Command Center. The course is designed to enhance knowledge of the Marine Air Command and Control System (MACCS) and the Air Tasking Order development process. Students will develop the air tasking order (ATO) using Theater Battle Management Core System (TBMCS) and will become familiar with the Message Text Format (MTF) of the ATO. After ATO development, the student will execute the ATO within the Current Operations watch section of the TACC; performing in billets such as the Close Battle Cell Fixed-Wing or Rotary Wing Tasker as well as the Air Defense Cell Fixed Wing Tasker.

Length: 26 days

Notes: None.

Prerequisites:

1. Rank: Captain or Major
2. MOS 75XX

Academic Syllabus: Concurrent with the Senior Watch Officer's Course syllabus events.

MARINE AIR TRAFFIC CONTROL MOBILE TEAM (MMT) LEADERS COURSE

Course Objective: To train and certify air traffic controllers in the concept and employment of MMT operations. Course graduates will be capable of the following:

1. Establish or execute an aviation Weapons and Tactics Training Program (WTTP) which includes individual crew and unit training.
2. Coordinate and conduct appropriate academic instruction applicable to the MMT and its role in supporting MAGTF air operations.
3. Assist the MAWTS-1 staff by submitting appropriate after action reports that will aid in updating instruction and tactics.
4. Coordinate MCCRES evaluations.
5. Demonstrate an ability to discuss the capabilities of each MACCS agency, and effectively integrate MMT operations within appropriate agencies as dictated by the tactical situation and assigned mission.
6. Demonstrate an ability to discuss and evaluate Threat Weapon Systems and their capabilities as they pertain to MMT operations in particular and the MACCS in general.
7. Ensure all training conducted under their supervision is appropriately documented and adheres to established standard procedures.

Length: 12 days of academic instruction, followed by 4 weeks of field operations during the flight phase of the WTI course.

Notes: None.

Prerequisites: Student prerequisites are outlined in the WTI Operations Guide prior to each WTI Course.

Academics Syllabus: Academic instruction coincides with the academic phase of the WTI Course. Specific syllabi will be published by MAWTS-1 prior to the beginning of each course.

Flight Syllabus: Practical application begins during the 3rd week of the WTI Course. Flight operations will take place at several airfields and air sites in support of fixed wing and rotary wing operations. Each student will serve in the billet as team leader and have an opportunity to lead, plan, brief, execute and debrief various MMT missions in support of the flight syllabus of the WTI Course.