

APPENDIX A WTI COURSE

WEAPONS AND TACTICS INSTRUCTOR COURSE

Course Objective: This course is designed to train and certify officers as Weapons and Tactics Instructors (WTI), capable of the following:

- 1 Assisting their respective unit commanders in conducting a professional aviation Weapons and Tactics Training Program (WTTP) which includes specific individual MOS training and collective operational unit training.
- 2 Acting as combat mission planners with enhanced planning skills and insight into how to integrate all aviation assets in order to promote mission success.
- 3 Coordinating and conducting appropriate supplementary courses applicable to their particular community.
- 4 Ensuring all training conducted under their supervision is properly documented and adheres to established safety procedures.
- 5 Submitting appropriate information, including post exercise/deployment reports, to assist MAWTS-1 in updating tactics and instruction.
- 6 Assisting weapons and tactics coordinators for MCCRES evaluations.

Length: 100 to 150 classroom hours 20 - 30 sorties

Notes: Upon successful completion of all academic and flight requirements as deemed necessary by the Commanding Officer, MAWTS-1, an additional MOS may be assigned as appropriate.

Prerequisites: Student prerequisites vary between the different aviation and command and control communities. MAWTS-1 will publish a WTI Operations Guide, amplifying the information contained in MCO P3500.12 and specifying prerequisites for each community prior to the beginning of each WTI class.

Academic Syllabus: Academic instruction is divided into three phases: generic, common and specific. The classes contained in each phase can be found in chapter 2.

- 1 Generic academics builds a broad foundation for all communities and includes graduate level instruction on threat analysis, missions planning, and aviation employment.
- 2 Common academics provide more detailed information, tailored to the needs of the aircraft type or command and control community. The WTI course addresses common academics in three major areas; fixed wing aviation (TACAIR), rotary wing aviation (ASD), and command, control, and communications (C3). Ground Combat, Intelligence, and Aviation Ground Support communities do not fall entirely in line with these three major areas their academic program is tailor as required.
- 3 Specific academics address weapons systems applicable to a particular aircraft or agency. Topics covered include: employment considerations, tactics, training management, and instructor standardization and certification. Specific academics are coordinated within each division at MAWTS-1.

4 Specific academic schedules exist for the following communities:

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| a. AV-8B | FA-18 | EA-6B | KC-130 |
| b. CH-46 | CH-53 | AH-1W | UH-1N |
| c. AGS | GCE | INTEL | AC2W |
| d. ATC | COMM | DASC | GBAD |
| e. TACC | TAOC | UAV | |

Flight Syllabus: In-flight instruction is conducted in three phases: specific, common, and final exercise (FINEX). All sorties are conducted as instructor under training (IUT) events. In conjunction with the flight phase, C3, GCD, AGS, and intelligence students perform IUT events, which comprise specific training or support the TACAIR and ASD flight syllabi. Successful completion of the events that occur during the flight syllabus is required for graduation.

1. Specific flight evolutions are tailored to the needs of the individual aircraft community. The events address weapons and tactics that increase the prospective WTI's ability to conduct instruction in mission areas specific to their MOS.
2. Specific flight syllabi exist for the following communities:

a. AV-8B	FA-18	EA-6B	KC-130
b. CH-46	CH-53	UH-1N	AH-1W
3. Common flight evolutions allow aircraft from like communities (fixed wing and rotary wing) to conduct integrated operations, utilizing the Marine Air Command and Control System. Each common flight evolution is designed to accomplish specific objectives associated with the aircraft and command and control agencies participating in the evolution. A building block approach is utilized, adding to the knowledge and skills acquired during the specific flight evolution. The following flight evolutions comprise the common flight phase:
 - a. Ground Based Air Defense (GBAD) evolutions center on the requirement to conduct effective combat mission planning and maximize integration of GBAD assets including TMD to defend designated air defense priorities against a multi-axis, multi-altitude threat.
 - b. Anti-air Warfare (AAW) evolutions focus on the planning, integration, and airspace control measures required to conduct air defense of designated air defense priorities within the MAGTF AOR against a coordinated enemy strike force. This will also include any considerations for TMD to be integrated into the planning process of AAW.
 - c. Offensive Anti-air Warfare (OAAW) is a force on force evolution that focuses on the planning and integration required to conduct successful air operations against a sophisticated integrated air defense system. TMD will be planned for in this evolution as a MAGTF self-defense asset.
 - d. Offensive Air Support (OAS) evolutions concentrate on the planning and integration required to conduct effective fixed and rotary wing close air support and armed reconnaissance in a dynamic threat environment in support of MAGTF objectives.

- e. Assault Support Tactics (AST) evolutions are designed to develop and evaluate the mission planning and integration skills required to conduct assault support operations across a diverse spectrum of situations and threat environments.
4. The Final Exercise (FINEX) is the culmination of flight training during the WTI Course. The FINEX brings all communities together to plan and execute integrated air operations performing all six functions (and TMD) of Marine aviation in support of a notional MAGTF scheme of maneuver. The FINEX is designed as a comprehensive evolution incorporating all of the principles, tactics and techniques previously addressed. FINEX also incorporates the Aviation Combat Element staff planning process in a joint environment.