

CHAPTER EIGHTEEN

**UNMANNED AERIAL VEHICLE
SUPPLEMENTARY COURSES**

UAV - MISSION COMMANDER ACADEMIC SUPPORT PACKAGE

Course Objective: To provide UAV personnel with additional ground training as required by MCO P3500.14.

Length: 37 classroom hours

Notes:

1. The Academic Support Package (ASP) is developed by MAWTS-1 and intended for instruction by a WTI or other qualified squadron instructor. The Academic Syllabus shall be integrated into the combat ready (23 hours of academic instruction), combat qualified (14 hours of academic instruction) and fully combat qualified stages of training (0 hours of academic instruction). Classes delineated in paragraph 5 should be conducted annually for all personnel (12 hours of academic instruction).
2. All classes listed below in the academic syllabus are available on either the secret (S) or unclassified (U) versions of the MAWTS-1 ASP

Academic Syllabus:

1. The following syllabus supports the 200-level (Combat Ready) phase of training:
 - a. In direct support of the Mission Commander FAM (UAV System Familiarization) Stage, the following academic syllabus shall be completed:

(1) Self-Paced Readings:

(a) MCWP 3-42.1 Marine Unmanned Air Vehicles in Support of the MAGTF(DRAFT)

(b) Professional literature

(2) Lectures:

(a) **Prior to Stage Completion:**

- | | |
|---|------------------------|
| 1. MAWTS-1 Rules of Engagement | GENERIC CLASSIFIED ASP |
| 2. MAWTS-1 Environmental Effects on Electro-Magnetic Energy | GENERIC ASP |
| 3. MAWTS-1 Control of Aircraft and Missiles | WTI READ AHEAD |
| 4. C3 MUX COMM | C3 ASP |
| 5. C3 MACCS Communications | C3 ASP |

- 6. C3 Marine Wing Comm Squadron C3 ASP
- 7. C3 Passive Air Defense in the MACCS C3 ASP
- 8. C3 Theatre Missile Defense C3 ASP

(3) Chalk Talks: N/A

b. In direct support of the Mission Commander NAV (Navigation) Stage, the following academic syllabus shall be completed:

(1) Self-Paced Readings: N/A

(2) Lectures:

(a) **Prior to Stage Completion:**

- 1. MAWTS-1 Intelligence Preparation of the Battlefield GENERIC ASP

(3) Chalk Talks: N/A

c. In direct support of the Mission Commander Qualified in Model (IOQM) Stage, the following academic syllabus shall be completed:

(1) Self-Paced Readings:

- (a) MCWP 3-42.1 Marine Unmanned Air Vehicles in Support of the MAGTF(DRAFT)

(b) Professional literature

(2) Lectures:

(a) **Prior to Stage Completion:**

- 1. MAWTS-1 Aviation Ground Support GENERIC ASP
- 2. C3 Base Defense Zone C3 ASP

(3) Chalk Talks: N/A

d. In general support of the Mission Commander Combat Ready Phase, the following academic syllabus should be completed:

(1) Lectures:

- 1. MAWTS-1 Command and Control Warfare GENERIC ASP
- 2. MAWTS-1 Theatre Air Ground System GENERIC ASP

- | | |
|---|-------------|
| 3. MAWTS-1 Aviation Operations in Urban Terrain | GENERIC ASP |
| 4. MAWTS-1 Execution Checklist | GENERIC ASP |
| 5. MAWTS-1 Joint Air Operations | GENERIC ASP |
| 6. MAWTS-1 EW Employment | GENERIC ASP |
| 7. MAWTS-1 AC2W/ISR Employment | GENERIC ASP |
| 8. MAWTS-1 Deep Air Operations | GENERIC ASP |
| 9. MAWTS-1 ATARS Employment | GENERIC ASP |
| 10. MAWTS-1 TAC(A)/FAC(A) Employment | GENERIC ASP |
| 11. MAWTS-1 MACG in Support of the MEU(SOC) | GENERIC ASP |
| 12. C3 Electronic Targeting and Attack | C3 ASP |

2. The following syllabus supports the 300-level (Combat Qualified) phase of training:

a. In direct support of the Mission Commander TREC (Threat Recognition) Stage, the following academic syllabus shall be completed:

(1) Self-Paced Readings:

(a) Professional literature

(2) Lectures:

(a) **Prior to Stage Completion:**

- | | |
|---|------------------------|
| 1. MAWTS-1 Fixed Wing Threat to the MAGTF | GENERIC CLASSIFIED ASP |
| 2. MAWTS-1 Rotary Wing Threat to the MAGTF | GENERIC CLASSIFIED ASP |
| 3. MAWTS-1 Surface to Air Threat to the MAGTF | GENERIC CLASSIFIED ASP |
| 4. MAWTS-1 Missile & UAV Threat to the MAGTF | GENERIC CLASSIFIED ASP |
| 5. MAWTS-1 REC Threat to the MAGTF | GENERIC CLASSIFIED ASP |
| 6. MAWTS-1 Ground Threat to the MAGTF | GENERIC ASP |
| 7. MAWTS-1 Targeting Objectives & Guidance | GENERIC ASP |
| 8. MAWTS-1 Intelligence Battalion Overview | GENERIC ASP |
| 9. MAWTS-1 MAGTF/National ISR Employment | GENERIC ASP |

(3) Chalk Talks: N/A

b. In direct support of the Mission Commander MP (Mission Planning) Stage, the following academic syllabus shall be completed:

(1) Self-Paced Readings:

(a) Professional literature

(2) Lectures:

(a) **Prior to Stage Completion:**

- | | |
|--|-------------|
| 1. MAWTS-1 Information Management & Connectivity | GENERIC ASP |
| 2. C3 TBMCS Overview | C3 ASP |
| 3. C3 ATO 2000 & Spins format | C3 ASP |
| 4. C3 ACEOI | C3 ASP |
| 5. C3 MACCS Information Flow | C3 ASP |
| 6. C3 Multi-TADIL Network | C3 ASP |
| 7. C3 JCAS | C3 ASP |

(3) Chalk Talks: N/A

c. In direct support of the Mission Commander SSO (Split Site Operations) Stage, the following academic syllabus shall be completed:

(1) Self-Paced Readings:

(a) Professional literature

(2) Lectures: N/A

(3) Chalk Talks: N/A

d. In direct support of the Mission Commander NBC (NBC Operations) Stage, the following academic syllabus shall be completed:

(1) Self-Paced Readings:

(a) Professional literature

(2) Lectures: N/A

(3) Chalk Talks: N/A

3. The following syllabus supports the 400-level (Full Combat Qualified) phase of training:
 - a. In direct support of the Mission Commander OPS (Dual UAV Operations) Stage, the following academic syllabus shall be completed:
 - (4) Self-Paced Readings:
 - (a) Professional literature
 - (5) Lectures: N/A
 - (6) Chalk Talks: N/A
 - e. In direct support of the Mission Commander IUT (Instructor Under Training) Stage, the following academic syllabus shall be completed:
 - (1) Self-Paced Readings:
 - (a) Professional literature
 - (2) Lectures:
 - (a) Prior to Stage Initiation: N/A
 - (b) Prior to Stage Completion: N/A
 - (3) Chalk Talks: N/A
4. The following syllabus supports the Requirements, Qualifications, & Designations level phase of training:
 - a. In direct support of the Mission Commander RQD (NATOPS Evaluation) Stage, the following academic syllabus shall be completed:
 - (1) Self-Paced Readings:
 - (a) A1-SRRPV-NFM-000, RQ-2B NATOPS Manual
 - (2) Lectures: N/A
 - (3) Chalk Talks: N/A

g. In direct support of the Mission Commander FCF (Functional Check Flight) Stage, the following academic syllabus shall be completed:

(1) Self-Paced Readings: N/A

(2) Lectures: N/A

(3) Chalk Talks: N/A

5. The following classes should be administered annually:

- | | |
|---|------------------------|
| (1) MAWTS-1 Intelligence Preparation of the Battlefield | GENERIC ASP |
| (2) MAWTS-1 Fixed Wing Threat to the MAGTF | GENERIC CLASSIFIED ASP |
| (3) MAWTS-1 Rotary Wing Threat to the MAGTF | GENERIC CLASSIFIED ASP |
| (4) MAWTS-1 Surface to Air Threat to the MAGTF | GENERIC CLASSIFIED ASP |
| (5) MAWTS-1 REC Threat to the MAGTF | GENERIC CLASSIFIED ASP |
| (6) MAWTS-1 Ground Threat to the MAGTF | GENERIC ASP |
| (7) MAWTS-1 Targeting Objectives & Guidance | GENERIC ASP |
| (8) MAWTS-1 Information Management & Connectivity | GENERIC ASP |
| (9) C3 MACCS Information Flow | GENERIC ASP |
| (10) C3 Rules of Engagement | C3 ASP |
| (11) C3 Passive Air Defense in the MACCS | C3 ASP |
| (12) C3 Multi-TADIL Network | C3 ASP |

UAV - INTERNAL OPERATOR ACADEMIC SUPPORT PACKAGE

Course Objective: To provide UAV personnel with additional ground training as required by MCO P3500.14.

Length: 44 classroom hours

Notes:

1. The Academic Support Package (ASP) is developed by MAWTS-1 and intended for instruction by a WTI or other qualified squadron instructor. The Academic Syllabus shall be integrated into the combat ready (19 hours of academic instruction), combat qualified (17 hours of academic instruction) and fully combat qualified stages of training (8 hours of academic instruction). Classes delineated in paragraph 5 should be conducted annually for all personnel (12 hours of academic instruction).
2. All classes listed below in the academic syllabus are available on either the secret (S) or unclassified (U) versions of the MAWTS-1 ASP

Academic Syllabus:

1. The following syllabus supports the 200-level (Combat Ready) phase of training:
 - a. In direct support of the Internal Operator FAM (UAV System Familiarization) Stage, the following academic syllabus shall be completed:

(1) Self-Paced Readings:

(a) MCWP 3-42.1 Marine Unmanned Air Vehicles in Support of the MAGTF(DRAFT)

(b) Professional literature

(2) Lectures:

(a) **Prior to Stage Initiation:**

- | | |
|---|------------------------|
| 1. MAWTS-1 Rules of Engagement | GENERIC CLASSIFIED ASP |
| 2. MAWTS-1 Control of Aircraft and Missiles | WTI READ AHEAD |
| 3. MAWTS-1 MMT Operations | GENERIC ASP |
| 4. C3 Tactical Air Command Center | C3 ASP |
| 5. C3 Marine Air Traffic Control | C3 ASP |
| 6. C3 Direct Air Support Center | C3 ASP |
| 7. C3 Tactical Air Operations Center | C3 ASP |

(b) Prior to Stage Completion:

- | | |
|---|-------------|
| 1. MAWTS-1 Environmental Effects on Electro-Magnetic Energy | GENERIC ASP |
| 2. C3 MUX COMM | C3 ASP |
| 3. C3 MACCS Communications | C3 ASP |
| 4. C3 Marine Wing Comm Squadron | C3 ASP |
| 5. C3 Passive Air Defense in the MACCS | C3 ASP |
| 6. C3 Theatre Missile Defense | C3 ASP |

(3) Chalk Talks: N/A

- b. In direct support of the Internal Operator NAV (Navigation) Stage, the following academic syllabus shall be completed:

(1) Self-Paced Readings:

(a) MSTP C2PC Handout

(2) Lectures:

(a) Prior to Stage Initiation:

- | | |
|--|-------------|
| 1. MAWTS-1 Intelligence Preparation of the Battlefield | GENERIC ASP |
|--|-------------|

(b) Prior to Stage Completion:

- | | |
|---|-------------|
| 1. MAWTS-1 TRAP Employment | GENERIC ASP |
| 2. MAWTS-1 Reactive SEAD Employment | GENERIC ASP |
| 3. MAWTS-1 Assault Support Escort Tactics | GENERIC ASP |
| 4. MAWTS-1 AEW Employment | GENERIC ASP |

(3) Chalk Talks: N/A

- c. In direct support of the Internal Operator Qualified in Model (IOQM) Stage, the following academic syllabus shall be completed:

(1) Self-Paced Readings: N/A

(2) Lectures:

(a) Prior to Stage Completion:

1. MAWTS-1 Aviation Ground Support **GENERIC ASP**
2. C3 Base Defense Zone **C3 ASP**

(3) Chalk Talks: N/A

d. In general support of the Internal Operator Combat Ready Phase, the following academic syllabus should be completed:

(1) Lectures: N/A

2. The following syllabus supports the 300-level (Combat Qualified) phase of training:

a. In direct support of the Internal Operator TREC (Threat Recognition) Stage, the following academic syllabus shall be completed:

(1) Self-Paced Readings:

(a) Professional literature

(2) Lectures:

(a) Prior to Stage Initiation:

1. MAWTS-1 Fixed Wing Threat to the MAGTF **GENERIC CLASSIFIED ASP**
2. MAWTS-1 Rotary Wing Threat to the MAGTF **GENERIC CLASSIFIED ASP**
3. MAWTS-1 Surface to Air Threat to the MAGTF **GENERIC CLASSIFIED ASP**
4. MAWTS-1 REC Threat to the MAGTF **GENERIC CLASSIFIED ASP**
5. MAWTS-1 Ground Threat to the MAGTF **GENERIC ASP**
6. MAWTS-1 Targeting Objectives & Guidance **GENERIC ASP**

(b) Prior to Stage Completion:

1. MAWTS-1 Intelligence Battalion Overview **GENERIC ASP**
2. MAWTS-1 MAGTF/National ISR Employment **GENERIC ASP**

(3) Chalk Talks: N/A

b. In direct support of the Internal Operator MP (Mission Planning) Stage, the following academic syllabus shall be completed:

(1) Self-Paced Readings:

(a) Professional literature

(2) Lectures:

(a) **Prior to Stage Initiation:**

- | | |
|-------------------------------|--------|
| 1. C3 TBMCS Overview | C3 ASP |
| 2. C3 ATO 2000 & Spins format | C3 ASP |
| 3. C3 ACEOI | C3 ASP |

(b) **Prior to Stage Completion:**

- | | |
|--|-------------|
| 1. MAWTS-1 Information Management & Connectivity | GENERIC ASP |
| 2. C3 MACCS Information Flow | C3 ASP |
| 3. C3 Multi-TADIL Network | C3 ASP |
| 4. C3 JCAS | C3 ASP |

(3) Chalk Talks: N/A

c. In direct support of the Internal Operator SAC (Supporting Arms Controller) Stage, the following academic syllabus shall be completed:

(1) Self-Paced Readings:

(a) Professional literature

(2) Lectures:

(a) **Prior to Stage Initiation:**

- | | |
|---|-------------|
| 1. MAWTS-1 MAGTF Targeting & Fire Support | GENERIC ASP |
|---|-------------|

(b) **Prior to Stage Completion:**

- | | |
|---------------------------------------|-------------|
| 1. C3 JDAM/JSOW & Target Requirements | GENERIC ASP |
|---------------------------------------|-------------|

(3) Chalk Talks: N/A

- d. In direct support of the Internal Operator PCS (Portable Control Station) Stage, the following academic syllabus shall be completed:
 - (1) Self-Paced Readings:
 - (a) Professional literature
 - (2) Lectures: N/A
 - (3) Chalk Talks: N/A
 - e. In direct support of the Internal Operator SSO (Split Site Operations) Stage, the following academic syllabus shall be completed:
 - (1) Self-Paced Readings:
 - (a) Professional literature
 - (2) Lectures: N/A
 - (3) Chalk Talks: N/A
 - f. In direct support of the Internal Operator NBC (NBC Operations) Stage, the following academic syllabus shall be completed:
 - (1) Self-Paced Readings:
 - (a) Professional literature
 - (2) Lectures: N/A
 - (3) Chalk Talks: N/A
 - g. In general support of the Internal Operator Combat Qualified Phase, the following academic syllabus should be completed:
 - (1) Lectures: N/A
3. The following syllabus supports the 400-level (Full Combat Qualified) phase of training:
- a. In direct support of the Internal Operator AMP (Advanced Mission Planning) Stage, the following academic syllabus shall be completed:

(1) Self-Paced Readings:

(a) Professional literature

(2) Lectures:

(a) **Prior to Stage Initiation:**

- | | |
|---|-------------|
| 1. MAWTS-1 Command and Control Warfare | GENERIC ASP |
| 2. MAWTS-1 Theatre Air Ground System | GENERIC ASP |
| 3. MAWTS-1 Aviation Operations in Urban Terrain | GENERIC ASP |
| 4. MAWTS-1 Execution Checklist | GENERIC ASP |

(b) **Prior to Stage Completion:**

- | | |
|--|-------------|
| 1. MAWTS-1 Joint Air Operations | GENERIC ASP |
| 2. MAWTS-1 EW Employment | GENERIC ASP |
| 3. MAWTS-1 AC2W/ISR Employment | GENERIC ASP |
| 4. MAWTS-1 Deep Air Operations | GENERIC ASP |
| 5. MAWTS-1 ATARS Employment | GENERIC ASP |
| 6. MAWTS-1 TAC(A)/FAC(A) Employment | GENERIC ASP |
| 7. MAWTS-1 MACG in Support of the MEU(SOC) | GENERIC ASP |
| 8. C3 Electronic Targeting and Attack | C3 ASP |

(3) Chalk Talks: N/A

b. In direct support of the Internal Operator OPS (Dual UAV Operations) Stage, the following academic syllabus shall be completed:

(1) Self-Paced Readings:

(a) Professional literature

(2) Lectures: N/A

(3) Chalk Talks: N/A

c. In direct support of the Payload Operator IUT (Instructor Under Training) Stage, the following academic syllabus shall be completed:

(1) Self-Paced Readings:

(a) Professional literature

(2) Lectures: N/A

(3) Chalk Talks: N/A

- d. In direct support of the Internal Pilot IUT (Instructor Under Training) Stage, the following academic syllabus shall be completed:

(1) Self-Paced Readings:

(a) Professional literature

(2) Lectures:

(a) Prior to Stage Initiation: N/A

(b) Prior to Stage Completion: N/A

(3) Chalk Talks: N/A

- e. In direct support of the Internal Operator IUT (Supporting Arms Coordinator Under Instruction OPS) Stage, the following academic syllabus shall be completed:

(1) Self-Paced Readings:

(a) Professional literature

(2) Lectures: N/A

(3) Chalk Talks: N/A

4. The following syllabus supports the Requirements, Qualifications, & Designations level phase of training

- a. In direct support of the Internal Operator RQD (NATOPS Evaluation) Stage, the following academic syllabus shall be completed:

(1) Self-Paced Readings:

(a) A1-SRRPV-NFM-000, RQ-2B NATOPS Manual

(2) Lectures: N/A

(3) Chalk Talks: N/A

b.

In direct support of the Internal Operator SBO (Shipboard Operations) Stage, the following academic syllabus shall be completed:

(1) Self-Paced Readings: N/A

(2) Lectures: N/A

(3) Chalk Talks: N/A

5. The following classes should be administered annually:

- | | |
|---|------------------------|
| (1) MAWTS-1 Rules of Engagement | GENERIC CLASSIFIED ASP |
| (2) MAWST-1 Intelligence Preparation of the Battlefield | GENERIC ASP |
| (3) MAWTS-1 Fixed Wing Threat to the MAGTF | GENERIC CLASSIFIED ASP |
| (4) MAWTS-1 Rotary Wing Threat to the MAGTF | GENERIC CLASSIFIED ASP |
| (5) MAWTS-1 Surface to Air Threat to the MAGTF | GENERIC CLASSIFIED ASP |
| (6) MAWTS-1 REC Threat to the MAGTF | GENERIC CLASSIFIED ASP |
| (7) MAWTS-1 Ground Threat to the MAGTF | GENERIC ASP |
| (8) MAWTS-1 Targeting Objectives & Guidance | GENERIC ASP |
| (9) MAWTS-1 Information Management & Connectivity | GENERIC ASP |
| (10) C3 MACCS Information Flow | C3 ASP |
| (11) C3 Passive Air Defense in the MACCS | C3 ASP |
| (12) C3 Multi-TADIL Network | C3 ASP |

UAV - EXTERNAL OPERATOR ACADEMIC SUPPORT PACKAGE

Course Objective: To provide UAV personnel with additional ground training as required by MCO P3500.14.

Length: 43 classroom hours

Notes:

1. The Academic Support Package (ASP) is developed by MAWTS-1 and intended for instruction by a WTI or other qualified squadron instructor. The Academic Syllabus shall be integrated into the combat ready (43 hours of academic instruction), combat qualified (0 hours of academic instruction) and fully combat qualified stages of training (0 hours of academic instruction). Classes delineated in paragraph 5 should be conducted annually for all personnel (12 hours of academic instruction).
2. All classes listed below in the academic syllabus are available on either the secret (S) or unclassified (U) versions of the MAWTS-1 ASP.

Academic Syllabus:

1. The following syllabus supports the 200-level (Combat Ready) phase of training:
 - a. In direct support of the External Operator FAM (UAV System Familiarization) Stage, the following academic syllabus shall be completed:

(1) Self-Paced Readings:

(a) MCWP 3-42.1 Marine Unmanned Air Vehicles in Support of the MAGTF(DRAFT)

(b) Professional literature

(2) Lectures:

(a) **Prior to Stage Initiation:**

- | | |
|---|------------------------|
| 1. MAWTS-1 Rules of Engagement | GENERIC CLASSIFIED ASP |
| 2. MAWTS-1 Control of Aircraft and Missiles | WTI READ AHEAD |
| 3. MAWTS-1 MMT Operations | GENERIC ASP |
| 4. C3 Tactical Air Command Center | C3 ASP |
| 5. C3 Marine Air Traffic Control | C3 ASP |
| 6. C3 Direct Air Support Center | C3 ASP |
| 7. C3 Tactical Air Operations Center | C3 ASP |

(b) Prior to Stage Completion:

- | | |
|---|-------------|
| 1. MAWTS-1 Environmental Effects on Electro-Magnetic Energy | GENERIC ASP |
| 2. C3 MUX COMM | C3 ASP |
| 3. C3 MACCS Communications | C3 ASP |
| 4. C3 Marine Wing Comm Squadron | C3 ASP |
| 5. C3 Passive Air Defense in the MACCS | C3 ASP |
| 6. C3 Theatre Missile Defense | C3 ASP |

(3) Chalk Talks: N/A

- b. In direct support of the External Operator Qualified in Model (IOQM) Stage, the following academic syllabus shall be completed:

(1) Self-Paced Readings: N/A

(2) Lectures:

(a) Prior to Stage Completion:

- | | |
|------------------------------------|-------------|
| 1. MAWTS-1 Aviation Ground Support | GENERIC ASP |
| 2. C3 Base Defense Zone | C3 ASP |

(3) Chalk Talks: N/A

- c. In general support of the External Operator Combat Ready Phase, the following academic syllabus should be completed:

(1) Lectures:

- | | |
|---|------------------------|
| (a) MAWTS-1 Fixed Wing Threat to the MAGTF | GENERIC CLASSIFIED ASP |
| (b) MAWTS-1 Rotary Wing Threat to the MAGTF | GENERIC CLASSIFIED ASP |
| (c) MAWTS-1 Surface to Air Threat to the MAGTF | GENERIC CLASSIFIED ASP |
| (d) MAWTS-1 Missile & UAV Threat to the MAGTF | GENERIC CLASSIFIED ASP |
| (e) MAWTS-1 REC Threat to the MAGTF | GENERIC CLASSIFIED ASP |
| (f) MAWTS-1 Targeting Objectives and & Guidance | GENERIC ASP |
| (g) MAWTS-1 Intelligence Battalion Overview | GENERIC ASP |
| (h) MAWTS-1 MAGTF/National ISR | GENERIC ASP |

Employment	
(i) MAWTS-1 Information Management & Connectivity	GENERIC ASP
(j) MAWTS-1 MAGTF Targeting & Fire Support Planning	GENERIC ASP
(k) MAWTS-1 JDAM/JSOW & Target Requirements	GENERIC ASP
(l) MAWTS-1 Command and Control Warfare	GENERIC ASP
(m) MAWTS-1 Theatre Air Ground System	GENERIC ASP
(n) MAWTS-1 Aviation Operations In Urban Terrain	GENERIC ASP
(o) MAWTS-1 Execution Checklist	GENERIC ASP
(p) MAWTS-1 Joint Air Operations	GENERIC ASP
(q) MAWTS-1 EW Employment	GENERIC ASP
(r) MAWTS-1 AC2W/ISR Employment	GENERIC ASP
(s) MAWTS-1 Deep Air Operations	GENERIC ASP
(t) MAWTS-1 ATARS Employment	GENERIC ASP
(u) MAWTS-1 MACG in Support of the MEU(SOC)	GENERIC ASP
(v) MAWTS-1 TAC(A)/FAC(A) Employment	GENERIC ASP
(w) C3 Electronic Targeting & Attack	C3 ASP
(x) C3 JCAS	C3 ASP
(y) C3 Multi-TADIL Network	C3 ASP
(z) C3 TBMCS Overview	C3 ASP
(aa) C3 ATO 2000 & SPINS Format	C3 ASP
(bb) C3 MACCS Information Flow	C3 ASP

2. The following syllabus supports the 300-level (Combat Qualified) phase of training:

a. In direct support of the External Operator RATO (Rocket Assisted Take Off) Stage, the following academic syllabus shall be completed:

(1) Self-Paced Readings:

(a) Professional literature

(2) Lectures: N/A

(3) Chalk Talks: N/A

b. In direct support of the External Operator PL (Pneumatic Launcher Operations) Stage, the following academic syllabus shall be completed:

- (1) Self-Paced Readings:
 - (a) Professional literature
- (2) Lectures: N/A
- (3) Chalk Talks: N/A
- c. In direct support of the External Operator SFL (Short Field Landings) Stage, the following academic syllabus shall be completed:
 - (1) Self-Paced Readings:
 - (a) Professional literature
 - (2) Lectures: N/A
 - (3) Chalk Talks: N/A
- d. In direct support of the External Operator NBC (NBC Operations) Stage, the following academic syllabus shall be completed:
 - (1) Self-Paced Readings:
 - (a) Professional literature
 - (2) Lectures: N/A
 - (3) Chalk Talks: N/A
- 3. The following syllabus supports the 400-level (Full Combat Qualified) phase of training:
 - a. In direct support of the External Operator IUT (Instructor Under Training) Stage, the following academic syllabus shall be completed:
 - (1) Self-Paced Readings:
 - (a) Professional literature
 - (2) Lectures:
 - (a) Prior to Stage Initiation: N/A
 - (b) Prior to Stage Completion: N/A

(3) Chalk Talks: N/A

4. The following syllabus supports the Requirements, Qualifications, & Designations level phase of training

a. In direct support of the External Operator RQD (NATOPS Evaluation) Stage, the following academic syllabus shall be completed:

(1) Self-Paced Readings:

(a) A1-SRRPV-NFM-000, RQ-2B NATOPS Manual

(2) Lectures: N/A

(3) Chalk Talks: N/A

d. In direct support of the External Operator FCF (Functional Check Flight) Stage, the following academic syllabus shall be completed:

(1) Self-Paced Readings: N/A

(2) Lectures: N/A

(3) Chalk Talks: N/A

e. In direct support of the External Operator SBO (Shipboard Operations) Stage, the following academic syllabus shall be completed:

(1) Self-Paced Readings: N/A

(2) Lectures: N/A

(3) Chalk Talks: N/A

5. The following classes should be administered annually:

- | | |
|---|------------------------|
| (1) MAWTS-1 Rules of Engagement | GENERIC CLASSIFIED ASP |
| (2) C3 Passive Air Defense in the MACCS | C3 ASP |
| (3) MAWTS-1 Intelligence Preparation of the Battlefield | GENERIC ASP |
| (4) MAWTS-1 Fixed Wing Threat to the MAGTF | GENERIC CLASSIFIED ASP |
| (5) MAWTS-1 Rotary Wing Threat to the MAGTF | GENERIC CLASSIFIED ASP |
| (6) MAWTS-1 Surface to Air Threat to the MAGTF | GENERIC CLASSIFIED ASP |
| (7) MAWTS-1 REC Threat to the MAGTF | GENERIC CLASSIFIED ASP |
| (8) MAWTS-1 Ground Threat to the MAGTF | GENERIC ASP |
| (9) MAWTS-1 Targeting Objectives & Guidance | |

- (10) C3 MACCS Information Flow
- (11) C3 Information Management & Connectivity
- (12) C3 Multi-Tadil Network

C3 ASP
C3 ASP
C3 ASP

UAV MISSION COMMANDER TRAINING SYLLABUS

EVENT	DATE	INSTRUCTOR
COMBAT READY PHASE		
UAV SYSTEM FAMILIARIZATION		
FAM 200		
FAM 201		
FAM 202		
FAM 203		
FAM 204		
FAM 205		
RULES OF ENGAGEMENT		
ENVIRO EFFECTS ON ELECTRO-MAGNETIC ENERGY		
CONTROL OF AIRCRAFT AND MUX COMM		
MACCS COMMUNICATIONS		
MARINE WING		
PASSIVE AIR DEFENSE IN THE THEATRE MISSILE DEFENSE		
NAVIGATION		
NAV 210		
NAV 211		
INTELLIGENCE PREPARATION OF THE BATTLEFIELD		
NIGHT		
NITE 220		
NITE 221		
MISSION COMMANDER QUALIFIED IN MODEL		
MCQM 230		
BASE DEFENSE ZONE		
AVIATION GROUND SUPPORT		
COMMAND AND CONTROL		
THEATER AIR GROUND SYSTEM		
AVIATION OPERATIONS IN EXECUTION CHECKLIST		
JOINT AIR OPERATIONS		
EW EMPLOYMENT		
AC2W/ISR EMPLOYMENT		
DEEP AIR OPERATIONS		
ATARS EMPLOYMENT		
TAC(A)/FAC(A) EMPLOYMENT		
MACG IN SUPPORT OF THE		
ELECTRONIC TARGETING & ATTACK		
COMBAT QUALIFIED PHASE		
THREAT RECOGNITION		
TREC 300		
TREC 301		
FIXED WING THREAT TO THE MAGTF		
ROTARY WING THREAT TO THE MAGTF		
SURFACE TO AIR THREAT TO THE MAGTF		
MISSILE & UAV THREAT TO THE MAGTF		
REC THREAT TO THE MAGTF		
GROUND THREAT TO THE MAGTF		

TARGETING OBJECTIVES & GUIDANCE		
INTELLIGENCE BATTALION		
EVENT	DATE	INSTRUCTOR
MAGTF/NATIONAL ISR		
MISSION PLANNING		
MP 310		
MP 311		
MP312		
ACEOI		
INFORMATION MANAGEMENT & CONNECTIVITY		
TBMCS OVERVIEW		
ATO 2000 & SPINS FORMAT		
MACCS INFORMATION FLOW		
MULTI-TADIL NETWORK		
JCAS		
SUPPORTING ARMS CONTROLLER		
SAC 320		
SAC 321		
SAC 322		
MAGTF TARGETING & FIRE		
JDAM/JSOW & TARGET		
SPLIT SITE OPERATIONS		
SSO 330		
SSO 331		
SSO 342		
NBC OPERATIONS		
NBC 340		
FULL COMBAT QUALIFICATION PHASE		
DUAL UAV OPERATIONS		
OPS 410		
OPS 401		
MISSION COMMANDER INSTRUCTOR UNDER TRAINING		
IUT 500		
IUT 501		
IUT 502		
IUT 503		
IUT 504		
IUT 505		
IUT 506		
IUT 508		
REQUIREMENTS, QUALIFICATIONS & DESIGNATIONS		
NATOPS EVALUATION		
RQD 600		
RQD 601		
FUNCTIONAL CHECK FLIGHT QUALIFICATION		
SBO 602		

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UAV INTERNAL OPERATOR TRAINING SYLLABUS

EVENT	DATE	INSTRUCTOR
COMBAT READY PHASE		
UAV SYSTEM FAMILIARIZATION		
RULES OF ENGAGEMENT		
CONTROL OF AIRCRAFT AND MISSILES		
MMT OPERATIONS		
TACTICAL AIR COMMAND CENTER		
MARINE AIR TRAFFIC CONTROL		
DIRECT AIR SUPPORT CENTER		
TACTICAL AIR OPERATIONS CENTER		
FAM 200		
FAM 201		
FAM 202		
FAM 203		
FAM 204		
FAM 205		
FAM 206		
FAM 207		
FAM 208		
ENVIRO EFFECTS ON ELECTRO-MAGNETIC ENERGY		
MUX COMM		
MACCS COMMUNICATIONS		
MARINE WING COMMUNICATIONS SQUADRON		
PASSIVE AIR DEFENSE IN THE MACCS		
THEATRE MISSILE DEFENSE		
NAVIGATION		
INTELLIGENCE PREPARATION OF THE BATTLEFIELD		
NAV 210		
NAV 211		
NAV 212		
NAV 213		
NAV 214		
NAV 220		
NAV 221		
TRAP EMPLOYMENT		
REACTIVE SEAD EMPLOYMENT		
ASD ASSAULT SUPPORT ESCORT TACTICS		
AEW EMPLOYMENT		
INTERNAL OPERATOR QUALIFIED IN MODEL		
AVIATION GROUND SUPPORT		
C3 BASE DEFENSE ZONE		
IOQM 230		
IOQM 231		
COMBAT QUALIFIED PHASE		
THREAT RECOGNITION		
FIXED WING THREAT TO THE MAGTF		
ROTARY WING THREAT TO THE MAGTF		
SURFACE TO AIR THREAT TO THE MAGTF		
MISSILE & UAV THREAT TO THE MAGTF		
REC THREAT TO THE MAGTF		
GROUND THREAT TO THE MAGTF		
TARGETING OBJECTIVES & GUIDANCE		
TREC 300		
TREC 301		

EVENT	DATE	INSTRUCTOR
INTELLIGENCE BATTALION OVERVIEW		
MAGTF/NATIONAL ISR EMPLOYMENT		
MISSION PLANNING		
TBMCS OVERVIEW		
ATO 2000 & SPINS FORMAT		
ACEOI		
MP 310		
MP 311		
MP312		
INFORMATION MANAGEMENT & CONNECTIVITY		
MACCS INFORMATION FLOW		
MULTI-TADIL NETWORK		
JCAS		
SUPPORTING ARMS CONTROLLER		
MAGTF TARGETING & FIRE SUPPORT PLANNING		
SAC 320		
SAC 321		
SAC 322		
JDAM/JSOW & TARGET REQUIREMENTS		
PORTABLE CONTROL STATION		
PCS 330		
PCS 331		
PCS 332		
SPLIT SITE OPERATIONS		
SSO 340		
SSO 341		
SSO 342		
NBC OPERATIONS		
NBC 350		
NBC 351		
FAM 208		
FULL COMBAT QUALIFICATION PHASE		
ADVANCED MISSION PLANNING		
COMMAND AND CONTROL		
THEATER AIR GROUND SYSTEM		
AVIATION OPERATIONS IN EXECUTION CHECKLIST		
AMP 400		
AMP 401		
JOINT AIR OPERATIONS		
EW EMPLOYMENT		
AC2W/ISR EMPLOYMENT		
DEEP AIR OPERATIONS		
ATARS EMPLOYMENT		
MACG IN SUPPORT OF THE TAC(A)/FAC(A) EMPLOYMENT		
ELECTRONIC TARGETING & ATTACK		
DUAL UAV OPERATIONS		
OPS 410		
OPS 411		
PAYLOAD OPERATOR INSTRUCTOR UNDER TRAINING		
IUT 500		
IUT 501		
IUT 502		
IUT 503		
IUT 504		
IUT 505		

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UAV INTERNAL OPERATOR TRAINING SYLLABUS

EVENT	DATE	INSTRUCTOR
INTERNAL PILOT INSTRUCTOR UNDER TRAINING		
IUT 510		
IUT 511		
IUT 512		
IUT 513		
IUT 514		
IUT 515		
IUT 516		
SUPPORTING ARMS COORD INSTRUCTOR UNDER TRAINING		
IUT 520		
IUT521		
REQUIREMENTS, QUALIFICATIONS & DESIGNATIONS		
NATOPS EVALUATION		
RQD 600		
RQD 601		
RQD 602		
UAV SHIPBOARD OPERATIONS		
SBO 610		
SBO 611		
SBO 612		

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UAV EXTERNAL OPERATOR TRAINING SYLLABUS

EVENT	DATE	INSTRUCTOR
COMBAT READY PHASE		
UAV FAMILIARIZATION		
RULES OF ENGAGEMENT		
CONTROL OF AIRCRAFT AND MISSILES		
MMT OPERATIONS		
TACTICAL AIR COMMAND CENTER		
MARINE AIR TRAFFIC CONTROL		
DIRECT AIR SUPPORT CENTER		
TACTICAL AIR OPERATIONS CENTER		
FAM 200		
FAM 201		
FAM 202		
FAM 203		
FAM 204		
FAM 205		
FAM 206		
FAM 207		
ENVIRO EFFECTS ON ELECTRO-MAGNETIC ENERGY		
MUX COMM		
MACCS COMMUNICATIONS		
MARINE WING COMMUNICATIONS SQUADRON		
PASSIVE AIR DEFENSE IN THE MACCS		
THEATRE MISSILE DEFENSE		
EXTERNAL OPERATOR QUALIFIED IN MODEL		
AVIATION GROUND SUPPORT		
BASE DEFENSE ZONE		
EOQM 210		
GENERAL SUPPORT ACADEMICS		
FIXED WING THREAT TO THE MAGTF		
ROTARY WING THREAT TO THE MAGTF		
SURFACE TO AIR THREAT TO THE MAGTF		
MISSILE & UAV THREAT TO THE MAGTF		
REC THREAT TO THE MAGTF		
GROUND THREAT TO THE MAGTF		
TARGETING OBJECTIVES & GUIDANCE		
INTELLIGENCE BATTALION OVERVIEW		
MAGTF/NATIONAL ISR EMPLOYMENT		
INFORMATION MANAGEMENT & CONNECTIVITY		
MAGTF TARGETING & FIRE SUPPORT PLANNING		
JDAM/JSOW & TARGET REQUIREMENTS		
COMMAND AND CONTROL WARFARE		
THEATRE AIR GROUND SYSTEM		
AVIATION OPERATIONS IN URBAN TERRAIN		
EXECUTION CHECKLIST		

EVENT	DATE	INSTRUCTOR
JOINT AIR OPERATIONS		
EW EMPLOYMENT		
AC2W/ISR EMPLOYMENT		
DEEP AIR OPERATIONS		
ATARS EMPLOYMENT		
TAC(A)/FAC(A) EMPLOYMENT		
MACG IN SUPPORT OF THE MEU(SOC)		
MAWST-1 TAC(A)/FAC(A) EMPLOYMENT		
ELECTRONIC TARGETING & ATTACK		
JCAS		
MULTI-TADIL NETWORK		
TBMCS OVERVIEW		
ATO 2000 & SPINS FORMAT		
MACCS INFORMATION FLOW		
COMBAT QUALIFIED PHASE		
ROCKET ASSISTED TAKE OFF		
RATO 300		
RATO 301		
PNEUMATIC LAUNCHER OPERATIONS		
PL 310		
PL 311		
SHORT FIELD LANDING		
SFL 320		
SFL 321		
NBC OPERATIONS		
NBC 330		
FULL COMBAT QUALIFICATION PHASE		
EXTERNAL OPERATOR INSTRUCTOR UNDER TRAINING		
INSTRUCTIONAL TECHNIQUES		
IUT 500		
IUT 501		
IUT 502		
IUT 503		
IUT 504		
REQUIREMENTS, QUALIFICATIONS & DESIGNATIONS		
NATOPS EVALUATION		
RQD 600		
RQD 601		
FUNCTIONAL CHECK FLIGHT		
FCF 602		
UAV SHIPBOARD OPERATIONS		
SBO 610		
SBO 611		

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15 JULY 2002