# Marine Corps Artillery Fire Support Training Standing Operating Procedures (SOP)

**U.S. MARINE CORPS**

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                UNITED STATES MARINE CORPS
        10th Marine Regiment, 2d Marine Division
                      PSC Box 20105
              Camp Lejeune, NC 28542-0105
                           and
        11th Marine Regiment, 1st Marine Division
                     PSC Box 555504
              Camp Pendleton, CA 92055-5504
                           and
        12th Marine Regiment, 3d Marine Division
                  FPO AP CA 96602-8658
                           and
        14th Marine Regiment, 4th Marine Division
              NAS JRB FT.W, 4210 Hercules Rd
                  Fort Worth, TX 76127
                           and
   Marine Corps Artillery Detachment, Field Artillery School
                     759 McNair Ave.
                  Fort Sill, OK 73503-5600
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                                        Date
                                        5 Apr 2011
                                        JtRegtO P3570.2
                                        10th Mar
                                        11th Mar
                                        12th Mar
                                        14th Mar
                                        MCAD

JOINT REGIMENTAL ORDER P3570.2

From: Commanding Officer, 10th Marine Regiment
      Commanding Officer, 11th Marine Regiment
      Commanding Officer, 12th Marine Regiment
      Commanding Officer, 14th Marine Regiment
      Commanding Officer, Marine Corps Artillery Detachment,
      Fort Sill, OK

To: Distribution List

Subj: MARINE CORPS FIRE SUPPORT TRAINING STANDING OPERATING
PROCEDURE (SHORT TITLE: MCFSTSOP)

Ref: (a)  NAVMC 3500.7, Artillery Training and Readiness Manual
     (b)  JRegtO P3570.1_, Marine Corps Artillery Safety SOP
     (c)  MCO 3501.xxx, Marine Corps Policy For Training,
          Certification, and Reporting For Target Mensuration
          Only (TMO)
     (d)  MCRP 3-16E (Draft) Fire Support Systems For MAGTF
          Operations
     (e)  MCRP 3-16.6B Fire Support Team Techniques and
          Procedures
     (f)  MCO 3502.6, Force Generation Process Order
     (g)  JTAC MOA, Sept 2010
     (h)  JFO MOA, July 2010
     (i)  NAVMC 3500.42A, TACP T&R Manual

Encl: (1) LOCATOR SHEET

1.  Situation.  Fire Support has become increasingly complex in
modern warfare.  The hybrid threat and the requirement for
precise and discriminating fires have created new demands for
training and maintaining fire support proficiency.  The
development of new equipment types, the requirement for JTAC/JFO
support down to the platoon level, and evolving Tactics,
Techniques, and Procedures (TTP) for fire support coordination
and airspace clearance all have created tremendous challenges to
fire support training at all levels.

2. Cancellation. Not Applicable

3.  Mission.  This Order outlines uniform procedures and
requirements for training and tracking of fire support personnel
and Teams at all levels up to the Division Fire Support
Coordination Center (FSCC) at the artillery regiment.

4.  Execution

a.  Commanders' Intent and Concept of Operations

    (1) Commanders' Intent

        (a) The operating environment throughout the Range Of Military Operations (ROMO) requires all fire supporters to be trained to T&R standard. Additionally, all fire support agencies [Company Fire Support Team (C-FST), Battalion Fire Support Team (B-FST), and Regimental Fire Support Team (R-FST)] must be formed and ready to report to maneuver units well in advance of scheduled deployment dates.

        (b) This order is intended to standardize and clarify fire support training policies and requirements across the operating forces. The Artillery Regiments must train their fire support personnel and Teams in accordance with the references and this Order. The Marine Artillery Detachment, Fort Sill is in direct support of this effort.

    (2) Concept of Operations

        (a)  Artillery Regimental and Battalion Commanders are ultimately responsible for providing proficient Fire Support Officers and Fire Support Teams to maneuver Commanders. Training these Marines will be the responsibility of the Regimental Fire Support Coordinator and the Division Assistant Fire Support Coordinator.  Fire Support Officers and Fire Support Chiefs will become familiar with required training and track training conducted for each Fire Support Marine within the unit in accordance with this SOP and the required T&R tasks. Coordination between Artillery S-3s and maneuver unit S-3s will be conducted to maximize field and live fire training opportunities.

        (b) Fire support personnel and teams will make every effort to train with their organic artillery regiments and battalions as well as their habitual supported maneuver units.

  b.  Scope.  This SOP discusses Fire Support training requirements and processes within the Marine artillery regiments to include the Division Fire Support Coordination Center.

  c.  Waivers.  Artillery Regimental Commanders are authorized modification to the policies set forth in this order.  Since the policies in this order are designed to provide standardization across the Marine Corps, any modifications may impact other

units and should be communicated to all artillery regiments and MarDet, Ft Sill.

5.  Administration and Logistics

    a.  Administration

        (1) Marine Detachment, Fort Sill, is the coordinating command for this SOP.  This SOP will be reviewed on a biennial basis and incorporate recommendations and feedback from the FMF and supporting establishment.  Recommendations for revising this SOP are invited and will be submitted to the Commanding Officer, Marine Detachment (Attn: S-3), 759 McNair Ave. Fort Sill OK 73503-5600, via the appropriate chain of command. Recommendations for changes to this SOP will be routed to 10th, 11th, 12th, and 14th Marines (Attn: S-3) for approval prior to incorporation.

    b.  Logistics.  Not Applicable.

6.  Command and Signal

    a.  Command.  This Order is applicable to the Marine Corps Reserve, except where specified otherwise.
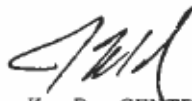
    b.  Signal.  This order is effective the date signed.


P. W. BOGGS
CO, 10th Marines

M. M. FRAZIER
CO, 11th Marines

FOR K. R. GENTRY
CO, 12th Marines

A. L. ORR
CO, 14th Marines

A. J. JOHNSON
CO, Marine Artillery Detachment


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Location:

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RECORD OF CHANGES

Log completed change action as indicated.

| Change Number | Date Of Change | Date Entered | Signature of Person Incorporating Change |
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# TABLE OF CONTENTS

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# Chapter 1
## Introduction

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**Chapter 1**
<u>**Introduction**</u>


1000. <u>General</u>

    1.  The six chapters and three appendices of this SOP describe the roles and responsibilities of fire support personnel and agencies at all echelons up to the Division Fire Support Coordination Center (FSCC) at the artillery regiment. This SOP is derived from Marine Corps doctrine and T&R requirements, as well as 10th, 11th, 12th, 14th, Marine Regiment's and the Marine Artillery Detachment, Fort Sill concept of operation.

    2.  The intended audience for this SOP are individual fire support leaders and staff sections of units that have fire support personnel assigned within their organization, and units who receive fire support for their operations. This SOP is focused on the artillery regiment and battalion fire support personnel. Leaders include those in combined arms chains of command, field and company grade officers, middle-grade and senior noncommissioned officers, and regiment and battalion command group staffs. This SOP provides guidance for company, battalion, and regiment leaders and staff for training, sustainment, evaluation, and employment of Fire Support Teams. This chapter discusses definitions, references and terms and provides additional information specific to this SOP.

1001.  <u>Definitions</u>.  The definitions below define new or unique fire support terms which are either relevant to address in this SOP or do not yet exist in doctrine.

    1.  <u>Company Fire Support Team (Co-FST)</u>.  The artillery fire support element assigned to a company sized maneuver unit whose duties include:

        a. Advise the maneuver commander on the proper employment of fire support assets and munitions.

        b. Locate targets and refine target locations using TMO.

        c. Call for, adjust, and control the employment of fire support assets.

d. Plan and assist in the coordination of the
employment of all fire support assets available to the company.

        2. <u>Battalion Fire Support Team (Bn-FST)</u>.  The artillery
fire support element assigned to a Battalion Fire Support
Coordination Center whose duties include:

        a. Advise the maneuver commander / fire support
coordinator on the proper employment of fire support assets and
munitions.

        b. Conduct targeting functions to include;
nominating, approving, denying, or refining (via TMO) targets
within the battalion area of responsibility.

        c. Plan, direct, and coordinate the employment of
all fire support assets available to the battalion.

        d.  Facilitate employment of Type 2 & 3 CAS.


        3. <u>Company Fire Support Officer (CO FSO)</u>.  Must be at
minimum, a JFO qualified 0802 (or as required 0861) assigned as
the leader of the Company Fire Support Team.  The CO FSO is also
referred to as the Company Fire Support Team leader.

        4. <u>Battalion Fire Support Officer (BN FSO)</u>.  A
certified 0802 (or as required 0861) assigned as the leader of
the Battalion Fire Support Team.  Certification for the BN FSO
should include the successful completion of the following
schools: JFO school, resident FSCC course (USMC or US Army),
MCTOG TMIC (as the FSC), and the TACP course.   The BN FSO is
also referred to as the Battalion Fire Support Team leader.

        5. <u>Regimental Fire Support Coordinator (Regt FSC)</u>. The
certified 0802 assigned to lead the Regimental Fire Support
Team.  Certification for the Regt FSO will include the
successful completion of all of the following: EWTG PAC MAGTF
Fires course (or JOFEC), and MCTOG TMIC (as the FSC).  The Regt
FSC is also referred to as the Regimental Fire Support Team
leader.

        6. <u>Certification</u>

        a. JTAC Certification.  Individuals who
satisfactorily complete the appropriate service, USSOCOM, or
Partner Nation academic, practical, and live control training

requirements of a core JTAC training curriculum, and complete an initial JTAC evaluation may be granted JTAC certification. Certification is a National responsibility.

b. JFO Certification. Individuals who satisfactorily complete the appropriate Signatory's academic and practical training requirements of a core JFO training curriculum, and complete a comprehensive evaluation, will be JFO certified. JFO certification is a national responsibility. For USMC training requirements see Appendix A.

c. PSS-SOF Certification.

(1) PSS-SOF Operators. Certification is valid for 2 years following initial operator training. In addition, operators must maintain proficiency requirements (5 points, every 6 months).

(2) PSS-OFF Instructors. Must be a SNCO or officer who has been a certified operator for at least 12 months. Instructors must recertify every 2 years and maintain proficiency requirements (5 points, every 6 months).

(3) PSS-OFF Evaluators. Must be a SNCO or officer who is a certified instructor. Must be designated in writing by the appropriate authority to train: evaluators, instructors and users. Evaluators must recertify every 2 years and maintain proficiency requirements (5 points, every 6 months).

7. Designation. Designation by the commanding officer indicates a special staff role, and increased responsibility within the unit. Individuals with the below designations are also essential elements of the standardized and progressive continuum of training outlined by this SOP and any of the applicable references (i.e. JTAC or JFO MOA). Designation of an individual as unit Air Officer, JFO Evaluator (JFOE), JTAC Instructor (JTACI), JTAC Evaluator (JTACE), Tactical Air Control Party Instructor (TACPI), indicate responsibilities beyond that of FAC or JTAC, as described herein. Each requires a designation in writing from the commander, inserted into the Individual Performance Record (IPR), confirming that the individual has met required prerequisites and performance standards. Additionally, all training shall be documented and maintained in IPRs by the respective unit level Operations Section.

8.  Qualified JFO /JTAC / FAC

        a.  Qualified JFO.  A certified JFO who has maintained or regained currency by achieving the established minimum recurring training and evaluation requirements IAW SOP / the JFO MOA.

        b.  Qualified JTAC.  A Marine with the 7502 or 8002 MOS who has successfully completed the Core Skill Introduction phase of the USMC TACP T&R and is certified per the JCAS AP MOA.

        c.  Qualified Forward Air Controller (FAC).  A Pilot / NFO, qualified as a JTAC who has successfully completed the TACP T&R Core Skill Basic and Advanced levels of training and is capable of integrating all six functions of Marine Aviation into the ground scheme of maneuver during major exercises and operations.

        d.  Copies of qualification letters will be signed by the unit commanding officer and be included in IPRs.

    9.  Joint Fires Observer (JFO).  A Marine certified under established standards to act as an observer for a JTAC during Type 2 or Type 3 terminal attack control engagements.

    10.  Joint Terminal Attack Controller (JTAC).  A Marine with the 7502 or 8002 MOS who has successfully completed the Core Skill Introduction phase of the USMC TACP T&R and is certified per the JCAS AP MOA

    11.  JTAC-Evaluator (JTAC-E).  A SNCO or Officer that is a Close Air Support SME at the unit level with at least one year of operational experience as a JTAC who has completed an upgrade evaluation by the TACPI and is designated by the unit commander (O-5 or above). The JTACE shall conduct 18-month evaluations for JTACs/JFOs within Marine Corps units.

    12.  JTAC-Instructor (JTAC-I). A qualified JTAC who is designated a formal school instructor of JTAC trainees. Only a JTACI shall supervise and initially certify JTACs.

        a. A JTACI requires at least one year of operational experience as a qualified JTAC or FAC(A) prior to designation as a JTACI, and is certified by the EWTGs as having completed the JTACI syllabus.

b. Civilian contractors or DOD civilian personnel may serve as a JTACI provided the requirements set forth in paragraph 1017.2.b(1) above are met. A certified JTACI may only train and supervise JTAC trainees while assigned as permanent personnel at EWTGPAC or EWTGLANT or as delineated in paragraph 1018.4 of this manual.

13. <u>JFO-Evaluator (JFO-E)</u>. A Sergeant, SNCO, or Officer that is a joint fires SME at the unit level with at least one year of operational experience as a JTAC who has completed an upgrade evaluation by the TACPI or JTACE and is designated by the unit commander (0-5 or above).

14. <u>JFO-Instructor (JFOI)</u>. A JFOI is a joint fires SME at a JFO certifying schoolhouse designated by the schoolhouse commander to instruct all joint mission tasks (JMT) listed in the JFO MOA. A JFOI must have a minimum of one year operational experience in a joint fires duty area. Additional minimum requirements for qualifying as a JFOI:

a. Must have graduated from an accredited JFO Course, or;

b. Must audit a JFO Course of Instruction, and one of the following:

(1) Have graduated from a FAC(A) course of instruction.

(2) Have graduated from an accredited JTAC Qualification Course.

15. <u>Tactical Air Control Party Instructor (TACPI)</u>. A SNCO or Officer graduate of the MAWTS-1 Air Officer Course who has, additionally, been certified a TACPI by the Commanding Officer of MAWTS-1; the TACPI has completed the transformation from an individual trained in terminal attack control to an experienced aviation integrator and aviation integration training manager.

16. <u>Air Officer (AO)</u>. The commander's primary advisor on the integration and employment of aviation, and is principally responsible for the training management and currency of unit TACPs and TACP members.

17. <u>Target Menstruation Only (TMO)</u>. The TMO process is used primarily in Dynamic Targeting situations. It is a process

in which individuals perform target coordinate mensuration in situations where standard target materials may not be produced due to the nature of the operation being supported and the creation of associated target materials is not desired. This typically involves operators such as Joint Terminal Attack Controllers (JTAC)/Forward Observers (FO), etc. engaged in troops in contact (TIC) or used to engage fleeting targets. Refer to DIAI 3000.002, U.S./Allied Target Analysis Program (Appendix C, ref 5) for governance policy on standardized TM.

   a. Required (minimum). Direct positioning in dual screen mono or stereo from DPPDB.

   b. Optional (optimal). Other imagery registered to DPPDB.


  18. <u>Target Material Production (TMP)</u>. The TMP process is used primarily in Deliberate Targeting. It is a process in which target materials to include target coordinate data and its associated information for targeting databases such as MIDB, Target Management System (TMS), or databases containing Tomahawk Land Attack Missile data or Joint Air to Surface Standoff Missile data are produced. Individuals that wish to utilize the TMP process must be trained and certified on the following mensuration technique(s);

   a. Required (minimum). Digital Point Positioning Database (DPPDB) Direct viewed in stereo vs. dual screen mono for the TMO process.

   b. Optional (optimal)

   (1) National Technical Means (NTM) or commercial image Registered to DPPDB.

   (2) Multiple Image Geopositioning (MIG).

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## Chapter 2
## Fire Support Organization

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# Chapter 2
## Fire Support Organization

2000. <u>General</u>.  This chapter outlines standard organizational structure and function for all fire support teams within the artillery regiment.  This chapter includes the artillery reorganization that will be completed by FY13.

2001.  <u>Division Fire Support Coordination Center</u>

      1.  Division Fire Support Coordination Center Table of Organization (T/O):

| Division FSCC T/O | |
|---|---|
| Billet | MOS |
| Assistant Division Fire Support Coordinator | 0802 |
| Assistant Division Fire Support Officer | 0802 |
| Naval Gunfire Liaison Officer | 7120 |
| Target Information Officer | 0803 |
| Assistant Target Information Officer | 0803 |
| Division Fires Chief | 0861 |
| Assistant Division Fires Chief (JFO-E) | 0861 |
| Fire Support Man | 0861 / 8002 |
| Fire Support Man (JFO) | 0861 |
| Fire Support Man (JFO) | 0861 |
| Fire Support Man | 0861 |
| Regimental Air Officer (TACP-I) | 7502 |
| Senior Enlisted JTAC (TACP-I) | 0861 / 8002 |
| Assistant Division Fire Chief (JTAC-E) | 0861 / 8002 |

      2.  Duties and Responsibilities of Key Fire Support Personnel listed below are in addition to the responsibilities already defined in the references.  Each key personnel listed below will be familiar with applicable T&R requirements for Fire Support.

      a.  Assistant Division FSC (0802).  In addition to the responsibilities identified in the references, he is responsible for the implementation of this training SOP to include:

          (1) JFO / JTAC primer course

          (2) Annual Skills assessment

          (3) Manage 0802 / 0861 required fire support training

b.  Division Fire Support Chief (0861).  Assist the Assistant Division FSC in the implementation of this SOP. Additionally, he will coordinate the tracking and management of all assigned fire support personnel to meet training and operational requirements.

c.  Regimental Air Officer (75XX / 7502).  As the Regiments TACP-I, he supervises the training, tracking, and certification requirements for all JFO and JTAC's within the artillery regiment.  He will assist other units within the division in the management of their JTAC and JFO programs.

d.  Senior Enlisted JTAC (0861 / 8002).  As a TACP-I, assist the Regimental Air officer in the implementation of this SOP.

e.  Assistant Division Fire Support Chief (0861 / 8002).  As the Regimental JTAC-E, he shall supervise the management and tracking of the 6-month currency requirements as well as the 18 month evaluation for JTACs within the artillery regiment.

f.  Assistant Division Fire Support Chief (0861 / 8002).  As the Regimental JFO-E, he shall supervise the management and tracking of the 6-month currency requirements for JFOs within the artillery regiment.


2002.  Regimental Fire Support Coordination Center

1.  Regimental Fire Support Team (R-FST) Table of Organization:

| R-FST T/O | |
|---|---|
| Billet | MOS |
| Assistant Regimental Fire Support Coordinator | 0802 |
| Assistant Fire Support Officer | 0802 |
| Assistant Fire Support Officer | 0802 |
| Fire Support Chief | 0861 / 8002 |
| Fire Support Man (JFO) | 0861 |
| Fire Support Man (JFO) | 0861 |
| Radio Operator | 0621 |
| Radio Operator | 0621 |
| Radio Operator | 0621 |
| Radio Operator | 0621 |

2.  Duties and Responsibilities of Key Fire Support Personnel listed below are in addition to the responsibilities already defined in the references.  Each key personnel listed below will be familiar with applicable T&R requirements for Fire Support.

      a.  Regimental Fire Support Team Leader (0802).  In addition to the responsibilities identified in the references, he is responsible for executing the battalion commander's plan for implementing this SOP.  Additionally, he will coordinate with the Assistant Division FSC for the initial and sustainment training of fire support personnel within the artillery battalion.

      b.  Regimental Fire Support Chief (0861 / 8002).  Assist the Regimental Fire Support Team leader in the implementation of this SOP and ensure all fire support personnel meet their training and operational requirements.  Additionally, as a JTAC-E, he shall conduct the 6-month currency requirements as well as the 18 month evaluation for JTACs within the artillery battalion.

2003.  Battalion Fire Support Team

    1.  B-FST Table of Organization:

| Infantry B-FST T/O | |
|---|---|
| Billet | MOS |
| Battalion Fire Support Officer | 0802 / 8002 |
| Fire Support Team Chief | 0861 / 8002 |
| Fire Support Man (JFO) | 0861 |
| Fire Support Man (JFO) | 0861 |
| Fire Support Man (JFO) | 0861 |
| Radio Operator | 0621 |
| Radio Operator | 0621 |
| Radio Operator | 0621 |

| Tank / LAR B-FST T/O | |
|---|---|
| Billet | MOS |
| Battalion Fire Support Officer | 0802 / 8002 |
| Fire Support Team Chief | 0861 / 8002 |
| Fire Support Man (JFO) | 0861 |
| Fire Support Man (JFO) | 0861 |
| Fire Support Man (JFO) | 0861 |
| Radio Operator | 0621 |
| Radio Operator | 0621 |

2. B-FST Table of Equipment:

| B-FST T/E | | |
|---|---|---|
| TAMCN | Item | Quantity |
| A02737G | VRC-110 | 1 (MTS) |
| A19577G | MRC-145 | 1 |
| A20427G | PRC 150 | 1 |
| A20437G | AN/PRC-148 | 1 |
| A20707G | 119A | 2 |
| A21527G | EPLRS (w/antenna) | 2 |
| A25557G | AFATDS | 2 |
| A80237G | CYZ 10 | 1 |
| A93002B | Computer Workstation (Tough Book) | 1 |
| C34142E | Tents | 6 |
| C42602F | Support Cammie nets LCSS | 2 |
| C44312E | PALCON | 2 |
| C44332E | QUADCON | 1 |
| D00167K | Trailer Cargo M1102 | 1 |
| D0033 | M1152 | 1 |
| E0195 / E1442 | M4/M16A4 | 7 |
| E11542B | PVS 14 | 8 |
| E19787G | PAS-22 Thermal sight | 1 |
| H20472G | OE254 | 2 |
| K41282E | Fuel Cans | 4 |
| K42362E | Cots | 8 |
| K42502E | Water cans | 8 |
| K46552E | Panel marker | 1 |
| K49412E | Squad stove | 3 |

3. Duties and Responsibilities of Key Fire Support Personnel listed below are in addition to the responsibilities already defined in the references. Each key personnel listed below will be familiar with applicable T&R requirements for Fire Support.

a.  Battalion Fire Support Team Leader (0802 / 8002).
In addition to the responsibilities identified in the
references, he is responsible for assisting the regimental fire
support team leader in executing the battalion commander's plan
for implementing this SOP.

b.  Battalion Fire Support Chief (0861 / 8002).
Assist the Battalion Fire Support Team leader in the
implementation of this SOP and ensure all fire support personnel
meet their training and operational requirements.  Additionally,
as a JFO-E, he shall supervise the management and tracking of
the 6-month currency requirements for JFOs within the battalion
and company fire support teams.

2004.  Company Fire Support Team

1.  Co-FST Table of Organization:

| Infantry Co-FST T/O | |
|---|---|
| Billet | MOS |
| Company Fire Support Officer (JFO) | 0802 |
| Fire Support Man | 0861 / 8002 |
| Fire Support Man (JFO) | 0861 |
| Fire Support Man (JFO) | 0861 |
| Radio Operator | 0621 |

| LAR Co-FST T/O | |
|---|---|
| Billet | MOS |
| Company Fire Support Officer (JFO) | 0802 |
| Fire Support Man (JFO) | 0861 |
| Fire Support Man (JFO) | 0861 |
| Radio Operator | 0621 |

2.  Co-FST Table of Equipment:

| C-FST T/E | | |
|---|---|---|
| TAMCN | Item | Quantity |
| A0273 | AN/VRC 110 X1 | 1 |
| A20427G | PRC 150 | 1 |
| A20437G | AN/PRC-148 | 1 |
| A20747G | VRC-88D | 1 |
| A20797G | PRC 119F | 1 |
| A25607G | TLDHS(DAGR and PRC-117 are SL-3) | 2 |

| | | |
|---|---|---|
| A80237G | CYZ 10 | 1 |
| C34142E | Tents | 4 |
| C42602F | Support Cammie nets LCSS | 1 |
| C44312E | PALCON | 2 |
| D00167K | Trailer | 1 |
| D0030 | Truck Utility M1114 | 1 |
| E0195 / E1442 | M4 / M16A4 | 5 |
| E10487B | Vectors(DAGR and PVS-14 are SL-3) | 2 |
| E11542B | PVS 14 | 4 |
| E19787G | PAS-22 Thermal sight | 2 |
| K40382E | Binos | 2 |
| K41282E | Fuel Cans | 2 |
| K42222E | Lensatic Compass | 2 |
| K42362E | Cots | 6 |
| K42502E | Water cans | 4 |
| K46552E | Panel marker | 2 |
| K49412E | Squad stove | 3 |

3.  JTAC Individual Equipment Issue:

| Equipment Suite (1 per JTAC) | |
|---|---|
| Item | Remarks |
| LW JTAC Laser Target Designator (LTD) | Currently in UUNS process / development |
| Common Laser Range Finder (CLRF) Integrated Capability (IC) | |
| Thermal Laser Spot Imager (TLSI) | |
| Infrared Illuminator (IZLID 1000) | |
| Monocular Night Vision Device An/PVS-14 Night vision Mini 4.5x sight AN/PVS-17c | |
| Video Scout Remote Video Exploitation Terminal(RVET) | |
| STRIKELINK / Target Location, Designation and Hand-off System (TLDHS) | |
| Multiband Falcon II Radio set AN/PRC-117 | |
| High Frequency Manpack radio set AN/PRC-150 | |
| Electronic | |

| | |
|---|---|
| Dual channel headset | |
| Multiband (urban) Radioset AN/PRC-148 A20437GD | |

4.  JFO Individual Equipment Issue:

| Equipment Suite (1 per JFO) | |
|---|---|
| Item | Remarks |
| LW JTAC Laser Target Designator (LTD) | Currently in UUNS process / development |
| Common Laser Range Finder (CLRF) Integrated Capability (IC) | |
| Medium Range Thermal Binocular (MRTB) | |
| Defense Advanced GPS Receiver (DAGR) | |
| AN/PRC-117F(C) | |

5.  Duties and Responsibilities of Key Fire Support Personnel listed below are in addition to the responsibilities already defined in the references.  Each key personnel listed below will be familiar with applicable T&R requirements for Fire Support.

a.  Company Fire Support Officer (0802).  While attached, he performs the function of the company commander's fire support advisor, and can serve as the Company FST leader. If assigned as the Company FST leader, he is responsible for advising the proper employment of assigned JTAC's and JFO's.

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# Chapter 3
## JTAC and JFO Training and Sustainment Management

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# Chapter 3
## JTAC and JFO Training and Sustainment Management

3000.  <u>General</u>.  This chapter specifies policies to accomplish the requirements specified in references (g) through (i).  It will issue guidance for completion of JFO and JTAC primer courses.

3001.  <u>JFO Training and Sustainment Management</u>.  The JFO primer course is designed to prepare JFO candidates prior to attending resident school.  Sustainment will be maintained in accordance with reference h (JFO MOA).

    1.  <u>JFO Qualifications</u>

        a.  A JFO is a Lance Corporal or above (with 6 months of operational fire support experience) trained to perform the following duties:

            (1) Request, control, and adjust surface-to-surface fires.

            (2) Provide timely and accurate CAS targeting information to a JTAC / FAC(A), or directly to aircraft when authorized by the controlling JTAC / FAC(A).

            (3) Perform autonomous Terminal Guidance Operations (TGO).  TGO entails the JFO with voice or digital communication that provides approaching aircraft additional information regarding a specific location or target. During TGO circumstances the JTAC cannot see the aircraft or the target. Note: A JTAC or FAC(A) with weapon release authority is required to provide terminal attack control for CAS missions.)

        b.  Candidates eligible for the JFO program must be screened at the battalion level and tracked by the Regimental Fire Support Chief and the Assistant Division Fire Support Chief within the Artillery Regiment.

            (1) JFO Primer.  All JFO candidates must complete the JFO distance learning program on Joint Knowledge Online (JKO).  The purpose of the JFO Primer is to evaluate and prepare prospective JFO candidates for successful completion of the JFO course at EWTGPAC, EWTGLANT, and MTT courses.

(a) Resident primer course consists of academic lectures, assignments, DVTE/SAVT simulator events, field practical applications, and live air control.

(b) Upon completion of the JFO Primer, the JFO candidate attends JFO school.

(2) Upon graduation from JFO school, the JFO candidate is certified as a JFO.

c.  JFO Currency and Proficiency.  Once certified, a JFO will retain qualification provided currency is maintained and all recurring evaluation requirements are accomplished. JFOs who deploy fully qualified do not have to maintain currency while deployed in support of combat/contingency operations. Upon returning from deployment, JFOs return to the Artillery Regiment and are required to maintain currency per the TACP T&R manual and JCAS JFO MOA.  A JFO that fails to comply with currency requirements loses qualification.

2.  JFO Currency

a.  Perform as a JFO in support of two CAS events. This event begins with the JFO acquiring the target and providing targeting data to a JTAC/FAC(A) for a Type 2 or 3 CAS terminal attack control for the JTAC/FAC(A) to control. The JFO may pass targeting data directly to aircraft when authorized by the controlling JTAC/FAC(A). The event ends when the JFO successfully passes an abort or battle damage assessment (BDA) results to the aircraft/JTAC/FAC(A).

b.  Perform as a non-JTAC qualified individual in support of one CAS event utilizing JFIRE (Multi-Service Tactics, Techniques, and Procedures for the Joint Application of Firepower), "CAS Execution with Non-JTAC Personnel". In a training environment, supervision by a qualified JTAC/FAC(A) is required for live CAS missions.

c.  Perform one laser event in which the laser is used for target designation or terminal guidance of a laser-guided weapon (actual or simulated). In all cases, the laser system used must be capable of terminal guidance of a laser-guided weapon.

NOTE 1: Events where terminal guidance of a laser-guided weapon is performed can also credit one of the TGO semi-annual requirements in paragraph 2.4.1.

NOTE 2: Simulated laser device must accurately replicate actual laser device in form / fit / function.

d. Perform one night target marking event using electronic marking devices (i.e. laser, infrared (IR) pointer). Conduct at night between end of evening nautical twilight (EENT) and begin morning nautical twilight (BMNT).  Laser events (as described in paragraph 2.4.4.) conducted between EENT and BMNT credit this requirement.

e. Perform one abort. This event may be accomplished in conjunction with other semi-annual requirements (e.g. an abort during a CAS event).

f. Perform six surface-to-surface or naval surface call for fire events. At least one event must use the surface-based fire support format and at least one event must use the naval surface fire support format.)

g. Perform one AC-130 call for fire event.


3002.  JTAC Training and Sustainment Management.  The JTAC primer curriculum is designed to prepare JTAC candidates prior to attending resident school.  Sustainment will be maintained in accordance with reference g (JTAC MOA).

1.  Qualifications

a.  A JTAC is Sergeant or above certified as a JTAC who, from a forward position directs the action of combat aircraft engaged in close air support and other offensive air operations.  A qualified and current joint terminal attack controller will be recognized across DOD as capable and authorized to perform terminal attack control.  A JTAC candidate requires a minimum of one year in a position with operational or mission ready fire support exposure, or be an aircrew member with at least one year of operational flying experience.

(1) JTAC Primer.  The purpose of the JTAC Primer is to evaluate and prepare prospective JTAC candidates for a successful completion of the TACP course at EWTGPAC and EWTGLANT.

(a)  All JTAC candidates must complete the 11 JTAC Primer distance learning courses on Marine Net.

(b)   The resident regimental training consists of 35 hours of academics, assignments, 10 hours of DVTE/SAVT simulated controls, field practical applications, and live air control.

(c)   Upon completion of the JTAC Primer, the JTAC candidate attends TACP school and completes the introduction phase (1000 TACP T&R codes).

(2) Upon graduation from TACP school, the JTAC candidate is certified as a JTAC (SMOS 7502 and 8002).

b.   Currency and Proficiency.  Upon returning from deployment, JTACs return to the artillery regiment and are required to maintain proficiency per the TACP T&R manual. Infantry Regiment / Battalions may also conduct this training based on timing necessities i.e. if the Marine JTAC is certified after his FiST team has already chopped from the Artillery to Infantry Bn.

2.  JTAC Currency.   Once certified a JTAC will remain qualified, provided 6 successful controls are completed within the past six month period and all recurring evaluation requirements are satisfactorily accomplished.  The 6 controls must consist of the following:

a.  2 Type 1 control

b.  1 Type 2 control *

c.  3 fixed-wing controls

d.  1 must expend live or training ordnance

e.  1 control must employ a ground laser designator

f.  2 controls in a non-permissive threat environment

g.  1 must be at night **

* Remote observer (JFO) or video downlink may be used when available.

3-4

        ** Units deployed to or stationed at extreme latitudes (>49 deg) may defer the night control for qualification until night sorties can be executed.  (2)Units with a simulation device accredited IAW the JCAS AP MOA may replace 2 live terminal attack controls per 6 month period. The following live controls will not be replaced by simulation: 3 fixed-wing, 2 Type 1, 1 Type 2, 1 night, 1 expenditure of live or training ordnance, and 2 nonpermissive controls.

3003.  <u>JFO / TACP School Seats</u>.  School seat allocation is determined by PP&O, POG 70 at HQMC.  School seats are managed by Regiment through PP&O and allocated through an annual conference.

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# Chapter 4
## Digital Fire Support Training (DFST)

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# Chapter 4
## Digital Fire Support Training (DFST)

4000. <u>General</u>.  This chapter provides guidelines for conducting digital training and T&R events to enhance digital proficiency at command posts and fire support organizations at each echelon from the firing battery to the regimental HQ and Division Fire Support Coordination Center.  This process will include staff planning in order to build appropriate planning products (operations order, Appendix 19 w/Tab G, etc).  At a minimum, frequency of training events will be in accordance with the NAVMC 3500.7, various applicable T&R Manuals (i.e. Artillery, Infantry).

4001. <u>Artillery Battery Digital Fire Support Training</u>. Batteries will include training on all technical fire direction processes and complete the sensor to shooter links.

    1.  Personnel.  Each battery level training event will include Fire Support Teams, Fire Direction Centers and howitzer sections.

    2.  Systems.  All systems required to complete the digital loop will be employed including TLDHS, AFTDS, DFCS and voice communications for coordination as required.

    3.  Focus.  Conduct fire planning throughout the digital chain to include basic fire mission processing, CONOPS, fire plans, groups, series, and target list worksheets, etc.

4002. <u>Artillery Battalion Digital Fire Support Training</u>. Battalions will include training on all artillery tactical missions (DS, GS, GS-R, and R) in order to exercise requisite C2 and fire support functions completing the sensor to shooter link.

    1.  Personnel.  Each battalion level training event will include Fire Support Teams, Fire Support Coordination Centers, Fire Direction Centers and howitzer sections.

    2.  Systems and Applications.  All systems required to complete the digital loop will be employed including TLDHS, AFATDS, DFCS, JTCW, EMT, Blue Force Tracker, PSS-SOF and voice communications for coordination as required.

3.  Focus.  Conduct fire planning throughout the digital chain to include basic fire mission processing, CONOPS, fire plans, groups, series, and target list worksheets, etc.

4003.  <u>Artillery Regiment Digital Fire Support Training</u>. Regiments and Division FSCCs will include training on all artillery tactical missions (DS, GS, GS-R, and R) in order to exercise requisite C2 and fire support functions.  Emphasis will be placed on command support relationships as they relate to the tactical mission.

1.  Personnel.  Each regimental level training event will include fire support sensors, fire support coordination centers, fire direction centers, target processing center, counter battery radars, meteorological systems, and howitzer sections.

2.  Systems.  Systems required to complete the digital loop will be TLDHS, JADOCS, CPOF, PSS-SOF, IOS V1 & V2, MMS, JTCW/EMT, DFCS, Firefinder/Countermortar Radar Systems, and AFTDS which is the main hub of data processing for fire support processes and include voice communications for coordination as required.

3.  Focus.  Conduct fire planning throughout the digital chain to include basic fire mission processing, CONOPS, target acquisition, meteorological processing, fire plans, groups, series, and target list worksheets, etc.

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# Chapter 5
## Systems Training and Certification Programs

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**Chapter 5**
**Systems Training and Certification Programs**


5000.  General.  This chapter specifies fires-related systems training by MOS.  This will include policies related to all fire support C2 systems.

5001.  Joint Tactical COP Workstation (JTCW) and Effects Management Tool (EMT)

     1.  Operator Course.  Training provided by local MAGTF Integrated Systems Training Center (MISTC) or Artillery Training School (ATS) for the following MOSs:

       a.  Recommended MOSs:  0802, 0803, 0842, 0844, 0847, 0848, 0861

     2.  Systems Administrator Course – training from local MISTC or ATS for the following MOSs in a Watch Chief or Watch Officer billet:

       a.  Recommended MOSs:  0848, 0861

5002.  Advanced Field Artillery Tactical Data System (AFATDS)

     1.  Annual safety certification or skills assessment for the following MOSs (per JRegt Safety SOP):

       a.  Required MOSs: 0802, 0844, 0848, 0861

     2.  Operator Course.  Training provided by local MAGTF Integrated Systems Training Center (MISTC) or Artillery Training School (ATS) for the following MOSs (recertification as required)

       a.  Recommended MOSs:  0802, 0803, 0842, 0844, 0847, 0848, 0861

     3.  Supervisor-level training from local MISTC or ATS for the following MOSs in a Watch Chief or Watch Officer billet:

       a.  Recommended MOSs: 0802, 0803, 0842, 0847, 0861


5003.  Joint Automated Deep Operations Coordination System (JADOCS)

1.  Operator-level training from local MISTC or ATS for the following MOSs:

        a.  Recommended MOSs: 0802, 0803, 0861

    2.  System Administrator training from local MISTC or ATS for the following MOSs in a Watch Chief or Watch Officer billet:

        a.  Recommended MOSs:  0861

5004.  Command Post of the Future (CPOF)

    1.  Operator-level training from local MISTC or ATS for the following MOSs:

        a.  Recommended MOSs: 0802, 0803, 0844, 0848, 0861

5005.  Precision Strike Suite-Special Operations Forces (PSS-SOF) and Digital Precision Strike Suite, Scene Matching (DPSS-SM)

    1.  Operator-level certification from authorized agency for the following MOSs (semi-annual recertification):

        a.  Required MOSs (billet dependant): 0802, 0803, 0861, 75XX, 8002

5006.  Collateral Damage Estimation (CDE)

    1.  Operator-level certification from authorized agency for the following MOSs (recertification is based on COCOM or theater requirement):

        a.  Required MOSs (billet dependant): 0802, 0803, 0861, 8002, 75XX

5007.  Strikelink

    1.  Operator-level training from local ATS / FSR for the following MOSs:

        a.  Recommended MOSs: 0802, 0861, 8002, 75XX

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# Chapter 6
## Fire Support Skills Certification & Assessment

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# Chapter 6
## <u>Fire Support Skills Certification & Assessment</u>

6000.  <u>General</u>.  The Training Certification Program is intended as a tool to evaluate the proficiency and combat readiness of fire support personnel and assist unit commanders in directing unit training.  This certification is the commander's means of ensuring individuals are qualified to perform duties in designated fire support billets based on MOS using existing T&R standards and doctrine.

6001.  <u>Objective</u>.  The objective is to provide leaders a basic examination of knowledge and capabilities that should be known to Marines by billet and MOS.  By utilizing these examinations, a leader may discover trends in training deficiencies which will allow for mitigation.  This certification is a means to assess the individual's level of training and to measure the effectiveness of the unit's training program.

6002.  <u>Certification Frequency</u>.  The frequency of certification will be conducting in accordance with the following:

    1.  Annually.  Each Marine in a fire support billet will be certified annually.

    2.  Billet Change.  Each Marine in a fire support billet will be certified within 90 days of a billet change, either in the same unit or after a PCS/PCA move.

    3.  Pre-Deployment.  Each Marine in a fire support billet will be certified prior to D-240 (60 days before lock on).

    4.  LtCol's and MSgt's and above filling fire support billets will be certified within 3-months after assuming fire support billet.  Certification will remain valid until the end of their tour.

6003.  <u>Certification Examinations</u>.  The certification program will be conducted through four separate written examinations.

    1.  Part I: Observed Fire Procedures

        a.  Personnel: All 0802 / 0803 / 0861 in fire support billets

        b.  Number of Questions: 50

c.   Type of questions: Multiple choice, matching, fill in the blank, and true/false.

d.   Time allotted: 150 min

e.   References: MCWP 3-16.6, MCRP 3-16.6A, NAVMC 3500.7

f.   Minimum passing score: 90%

g.   References are not authorized for use in completing this portion of the examination.

2.   Part II: Company and Battalion level fire support planning, coordination, deconfliction, and execution

a.   Personnel: 0802 / 0803 / 0861 (sergeants and above) assigned to company level or higher fire support billets.

b.   Number of questions: 25

c.   Type of questions: Multiple choice, matching, fill in the blank, and true/false.

d.   Time allotted: 8 hours

e.   References: MCWP 3-16.6, MCWP 3-16, MCRP 3-16.6A, MCRP 5-2A, NAVMC 3500.7, NWP 3-09.11M

f.   Minimum passing score: 100%

g.   References are authorized for use in completing this portion of the examination

3.   Part III: Regiment through MEF level fire support planning, coordination, deconfliction, execution, and joint targeting.

a.   Personnel: 0802 / 0803 / 0861 (SSgt and above) assigned to fire support billets at the Regiment and Division level

b.   Number of questions: 50

c.   Type of questions: Multiple choice, matching, fill in the blank, and true/false.

d.   Time allotted: 8 hours

e.  References: MCWP 3-16, MCRP 3-16.6A, MCWP 3-23, MCRP 5-2A, NAVMC 3500.7, NWP 3-09.11, JP 3-09, JP 3-09.4, JP 3-60.

f.  Minimum passing score: 100%

g.  References are authorized for use in completing this portion of the examination.

4.  Part IV: C4I (AFATDS/EMT/TLDHS)

a.  Personnel: 0802 / 0803 / 0861

b.  Number of questions: 20

c.  (3) Type of questions: Multiple choice, matching, fill in the blank, and true/false.

d.  Time allotted: 8 hours

e.  References: AFATDS Job aids and users manual, TB 11-7025-354-10-9 EMT, and TLDHS TM.

f.  Minimum passing score: 100%

g.  References are authorized for use in completing this portion of the examination.

6004.  Schoolhouse Responsibilities

1.  General.  Marine Detachment Ft Sill will develop and maintain certification products.  They will work with the schoolhouses at Expeditionary Warfare Training Group (LANT/PAC) and the Marine Aviation Weapons and Tactics Squadron-1 (MAWTS-1), to ensure fire support and JFO / JTAC products are correct and up to date.

2.  Products

a.  Marine Detachment Ft Sill will develop written examinations for fire support personnel.

b.  Marine Detachment Ft Sill will maintain a Fire Support Certification folder on the Marine Detachment SharePoint site.  The following items will be maintained on the Marine Detachment SharePoint Site for retrieval by units for their training programs and Marines:

(1) Written examinations

          (2) Current references used to develop
certification products

6005.  <u>Artillery Unit Responsibilities</u>

     1.  General.  Artillery Regiments will establish
certification programs that evaluate the knowledge and
capabilities of their fire support personnel using the products
produced and maintained by the Marine Detachment, Ft Sill.

     2.  Reporting

          a.  Battalions will consolidate certification results
for trend analysis and development of a training plan to
mitigate training gaps.

          b.  Battalions will report certification results to
the Division Fire Support Coordination Center on a quarterly
basis via the artillery Regiment S-3.

               (1) The Division FSCC will consolidate battalion
results to perform trend analysis across the artillery regiment.

               (2) The Division FSCC will recommend a training
plan to the regimental S-3 to mitigate training gaps.

6006.  <u>Examination Materials, Procedures, and Results</u>

     1. Written Examination Materials

          a.  MARDET, Fort Sill will provide each regiment with
questions and answers for Parts I, II, III, and IV.

          b.  MARDET, Fort Sill maintains proponency for
computational procedures, periodic update, and development of
new versions of safety exams.

c.  Regiments / battalions will ensure all safety examinations, answer sheets, and answer keys are controlled.

2.  Examination Procedures

a.  The Division / Regimental Fire Support Chief will coordinate, schedule, and oversee administration of examinations.

b.  Test administrators will be assigned in writing by the regimental / battalion commander.  Only, test administrators will proctor and grade the examination.

c.  Test administrators will record test results and update training records accordingly.  Test results will be reported to the Division Fire Support Chief not less than quarterly.

3.  Examination Results

a.  Examination materials will be graded, recorded and maintained until expiration date or re-certification.

b.  Marines not achieving passing scores on certification tests will be individually debriefed on their test results and afforded an opportunity to re-test in the specific areas in which they did not achieve the minimum passing standard.  Battalion commander's have discretion for remediation and / or action for individual who are unable to successfully complete certification test requirements.

c.  The Division Fire Support Chief's / Regimental Fire Support Chief's will maintain a current copy of the Command Certification letter pertaining to Fire Support Personnel.

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# APPENDIX A
## Fire Support Training By Billet

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APPENDIX A
Fire Support Training by Billet


A1000.  General.  Resident training for fire supporters does not
end with entry level MOS related follow-on courses.  In many
cases, there are resident and non-resident courses relevant to
specific billets and ranks.

A1001.  Objective.  The objective is to provide leaders a
detailed listing of resident and nonresident courses.  Some
courses may be required while others are recommended to be
attended by Marines filling specific billets and by echelon in
Fire Support agencies.

A1002.  Fire Support Course Table.  The following table outlines
the fire support related courses available to fire support
billet holders at each rank and billet.

| Rank | Billet | Fire Support | | | | | | | | | | | | | | | Air | | | | | | | | | | | | Fires C2 Systems | | | | | | | | | | | | Targeting | | | | | | | IO | | | Misc. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Resident | | | | | | | | Non-Resident | | | | | | | Resident | | | | | | | Non-Resident | | | | | Resident | | | | | | | | | | NR | Resident | | | | | | NR | R | NR | | NR | |
| | | Company Level Fires Operations | FSCC | MAGTF Fire Support Chief Course | TMIC Bn Fires | TMIC Regt Fires | MAGTF Fires | Joint Operational Fires & Effect Course (JOFEC) | Senior Level Fires Chief Operations | Basic Forward Observation | Battlespace Geometry and Control Measures | Fire Support Planning | Fire Support Scheduling | (JTF 101) Module 9: Joint Fires and Targeting | Introduction to Joint Fire Support Course | Introduction to integrated maneuver and fires | Regimental JFO Primer Course | Joint Fires Observer (JFO) | Regimental JTAC Primer Course | Tactical Air Control Party (TACP) | Joint Firepower Control Course | Joint Air Officers Course | MAWTS-1 WTI Ground Officers Course | Joint Terminal Attack Controller (JTAC) Primer (1) | Introduction to Joint Air and Missile Defense Ops | Joint Close Air Support (JCAS) | Joint Force Air Component Operations (JFACO) | JFO Primer Courses (1) | TLDHS | AFATDS/EMT Operator | AFATDS/EMT Supervisor | C2PC/JTCW System Administration | C2PC/JTCW | JADOCS | JADOCS System Administration | CPOF | Joint Targeting Tool Box (JTT) | PSS-SOF | C2PC | Joint Staff Targeting Course | Joint Targeting Application Course | Joint Battle Damage Assessment | Joint Collateral Damage Estimation Course | Collateral Damage Estimation (MTT) | High Value Individual (HVI) Targeting | Targeting Process (D3A) | Information Operations Fundamentals | Tactical Information Operations Course | (JTF 101) Module 10: Joint Information Operations | Marine Corps Space Planning Process (MCPP) | NATO Space Support Course |
| LtCol | Div FSCC | | | | | | X | X | | | | | | X | X | X | | | | | | | | | | X | | X | | | | | | | | i | | i | | c | c | c | b | b | f | X | i | i | i | | i |
| Maj | Div FSCC | | | | | | X | X | | | | | | X | X | X | | | | | | | | | d | X | X | X | | | | | | | | a | | a | | c | c | c | b | b | f | X | i | i | i | i | |
| Maj | Regt FS Tm | | | | X | X | i | | | | | | | i | i | i | | | | | | | | | d | X | X | | a | a | a | a | | a | | a | | a | | | | | | | | X | i | i | i | i | |
| Capt | Regt FS Tm | | X | | X | | i | i | | | | X | X | i | i | i | | | | | | | | X | d | | X | X | i | d | | i | | a | | a | | a | | c | c | c | b | b | f | X | i | i | i | i | |
| Capt | Bn FS Tm | | X | | X | | | | | | | X | X | | | | | | | | | | | X | d | X | X | | d | | a | a | a | a | | a | | a | | a | | | | | | | X | i | i | | | |
| 1st Lt | Bn FS Tm | | X | | X | | | | | | | X | X | | | | | | | | | | | X | d | X | | | | X | X | | | | | | a | | | | | | | | | | X | | | | | |
| Lt | CO FS Tm | | | | | | | | | | | | | | | X | X | X | X | X | d | | | | | X | d | | | X | X | | | | | | | | | | | | | | | | X | | | | | |
| CWO | Div FSCC or Regt | | h | | h | h | | | | | | | | h | h | h | | | | | | | | | | | | h | | | | | | | | | | | | h | h | h | b | b | f | X | h | h | h | | |
| MGySgt | General | | | | X | X | X | | | | | | | X | X | X | | | | | | | | | | X | | X | | | | | | | | | | | | | | | | | | | | | | X |
| MSgt | General | | | | X | X | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| MSgt | Targeting Chief | | | | | X | | | | | | | | X | X | X | | | | | | | | | | X | | X | | | | | | | | a | | a | | X | X | X | b | b | f | | | | | | X |
| GySgt | General | | | g | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GySgt | Regt Fires Chief and Recon | | X | | | X | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | | X |
| GySgt | Targeting Chief | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | a | | a | | X | X | X | b | b | f | | | | | | |
| GySgt | IO personnel | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | b | b | X | | |
| SSgt | General | | X | | | | | | | | | | | | | | | X | X | d | | | | X | | d | | | | | | | | | | | | | | | | | | | | | X | | | | |
| SSgt | Bn Fires Chief | | X | | X | | | | | | X | | | | | | | | | | | | | | | | | X | X | | | | | | | | | | | | | | | | | X | | | | |
| SSgt | Regt to Division systems supervisors | | | | | | | | | | | | | | | | | | | | | | | | | | | | a | a | a | | a | a | a | | | | | | | | | | | | | | | |
| SSgt | Targeting personnel | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | a | | a | | c | c | c | b | b | f | | | | | | |
| SSgt | IO personnel | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | b | b | X | | |
| Sgt | General | | X | | | | | | | | | | | | | | | X | X | d | | | | X | | d | | | | | | | | | | | | | | | | | | | | | X | | | | |
| Sgt | Bn Fires Chief | | X | | X | | | | | | X | | | | | | | | | | | | | | | | | X | X | | | | | | | | | | | | | | | | | X | | | | |
| Sgt | Regt to Division operators/supervisors | | | | | | | | | | | | | | | | | | | | | | | | | | | | a | a | a | | a | a | a | | | | | | | | | | | | | | | |
| Sgt | Targeting personnel | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | a | | a | | c | c | c | b | b | f | | | | | | |
| Sgt | IO personnel | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | b | b | X | | |
| Cpl | General | X | | | | | | | | X | X | | | | | | X | X | | | | | | | | | | X | X | | | | | | | | | | | | | | | | X | | | | | |
| Cpl | Bn to Division systems operators | | | | | | | | | | | | | | | | | | | | | | | | | | | | | a | | a | a | a | a | a | | | | | | | | | | | | | | |
| Pvt - LCp | General | X | | | | | | | | X | X | | X | | | | X | X | | | | | | | | X | | | X | | | | | | | | | | | X | | | | | | X | | | | |
| Pvt - LCp | Bn to Division systems operators | | | | | | | | | | | | | | | | | | | | | | | | | | | | | a | | a | | a | | a | | | | | | | | | | | | | | |

Note 1: This is a series of Non resident course that must be taken prior to it's resident equivalent.

Note a: COC fire C2 systems operators must attend resident courses supporting appropriate echelon and theater requirements.

Note b: Marine may take either course or both if command directed.

Note c: Dependent on Marines responsibilities within targeting section.

Note d: Once the Marine has become a JTAC he may attend this course.

Note f: Theater dependent

Note g: Those Gunnery Sergeants that have not been able to attend the Chief Course must complete course at the earliest possible opportunity

Note h: CWO in fire sections must attend resident courses supporting appropriate echelon and theater requirements.

Note i: Officers at fire sections must attend resident courses supporting appropriate echelon and theater requirements.

A1003.  <u>Fires Support Course List by Functional Area</u>

       1.  <u>Fire Support Resident Courses</u>

           a.  Company Level Fires Operations (Pvt-Cpl) (ATS) (5 days) (POI has not been developed)

           b.  FSCC (Sgt-GySgt) (CWO2 – CWO5) (2dLt – Capt)(EWTGs) (10 Days EWTG LANT/PAC 5 Days)

           c.  MAGTF Fire Support Chief Course (Sgt-GySgt) (MarDet, Ft Sill) (6 Weeks)

           d.  TMIC Bn Fires Sect (SSgt - GySgt) (1$^{st}$ Lt – Capt) (MCTOG) (34 Days)

           e.  TMIC Regt Fires Sect (GySgt - MSgt) (Capt– Major) (MCTOG) (34 Days)

           f.  MAGTF Fires (SSgt-MSgt) (CWO2 – CWO5) (Capt – LtCols) (EWTGPAC) (10 Days)

           g.  Joint Operational Fires & Effect Course (JOFEC) (GySgt-MGySgt) (CWO2 – CWO5) (Capt – LtCol)(Ft Sill) (15 Days)

           h.  Senior Level Fires Chief Operations (Div-JTF) (MSgt-MGySgt) (Ft Sill) (POI has not been developed) (5 Days)

       2.  <u>Fire Support Non-Resident Courses</u>

           a.  Marine Corps Institute (MCI)

           (1) Basic Forward Observation (Pvt-Cpl) MarineNet

           (2) Battalion FSCC (Sgt-GySgt) (1$^{st}$Lt – Capt)

           (3) Battlespace Geometry and Control Measures (LCpl-Sgt)

           (4) Fire Support Planning (Sgt –GySgt) (1stLt – Capt)

           (5) Fire Support Scheduling (LCpl-Sgt) Joint Knowledge Online (JKO)

           (6) Joint Task Force Fundamentals Course (JTF 101) Module 9: Joint Fires and Targeting (GySgt-MGySgt) (CWO2 – CWO5) (Capt – LtCol)

           (7) Introduction to Joint Fire Support Course (GySgt-MGySgt) (CWO2 – CWO5) (Capt – LtCol)

(8) Introduction to integrated maneuver and fires (GySgt-MGySgt) (CWO2 – CWO5) (Capt – LtCol)

    3.  <u>Air Related Recommended Resident Courses</u>

        a.  Joint Fires Observer (JFO) (LCpl - Cpl) (2dLt – Capt)(EWTGs) (10 Day)

        b.  Tactical Air Control Party (TACP) (Sgt-SSgt) (1stLt – Capt) (EWTGs) (20 Days)

        c.  Joint Firepower Control Course (Sgt-SSgt) (1stLt – Major) (Nellis AFB NV) (14 Days)

        d.  MAWTS-1 Air Officers Course (MSgt) (Major 75XX) (MAWTS-1)

        e.  MAWTS-1 WTI Ground Officers Course (GySgt- MSgt) (Capt – Major) (MAWTS-1)

    4.  <u>Air Related Recommended Non-Resident Courses</u>

        a.  MarineNet

        (1) Joint Terminal Attack Controller (JTAC) Primer Curriculum - Curriculum (Sgt –SSgt) (1stLt – Capt)

           (a) Course Curriculum

               - Six Functions of Marine Aviation
               - Introduction to Fire Support in MAGTF Operations
               - Battlespace Geometry
               - Targeting
               - Air C2
               - Close Air Support
               - Basic Call For Fire
               - Advanced Call For Fire
               - Nine-Line
               - Fixed Wing Employment
               - Rotary Wing Employment

      b.  JKO

        (1) Introduction to Joint Air and Missile Defense Operations Course (GySgt-MGySgt) (Capt - LtCol)

        (2) Joint Close Air Support (JCAS) Course (Sgt-SSgt) (1<sup>st</sup> Lt – Capt)

        (3) Joint Force Air Component Operations (JFACO) (GySgt-MGySgt) (Capt - LtCol)

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(4) JFO Primer Courses (LCpl – Cpl) (2dLt – Capt)

5.  Fires C2 Systems and Applications Recommended Resident Courses

      a.  TLDHS (Pvt-Cpl) (2ndLt – Capt) (ATS or MTT)

      b.  AFATDS/EMT Operator (Pvt-Cpl) (ATS – MISTC)

      c.  AFATDS/EMT Supervisor (Sgt-GySgt) (2dLt – Capt) (ATS)

      d.  C2PC/JTCW (Pvt-Cpl) (MISTC)

      e.  JADOCS (Pvt-Cpl) (WO – CWO5) (Capt - LtCol) (MISTC)

      f.  JADOCS System Administration (Cpl-Sgt) (MISTC)

      g.  CPOF (Pvt-Cpl) (2ndLt – Capt) (MISTC)

      h.  Joint Targeting Tool Box (JTT) (GySgt-MSgt) (WO – CWO5) (Capt – LtCol) (Certified by numbered Air Force/JFACC)

      i.  PSS-SOF (Cpl – MSgt) (2ndLt – Capt)

      j.  JTCW System Administration Course (Cpl – Sgt)

6.  Fires C2 Systems Recommended Non-Resident Courses

      a.  MarineNet

        (1) C2PC (Pvt-Cpl)

7.  Targeting Recommended Resident Courses

      a. Joint Staff Targeting Course (Sgt-MGySgt) (CWO2 – CWO5) (Capt – LtCol) (Dam Neck VA) (35 Days)

      b. Joint Targeting Application Course (Sgt-MGySgt) (CWO2 – CWO5) (Capt – LtCol) (Dam Neck VA) (7 Days)

      c. Joint Battle Damage Assessment (Sgt-MGySgt) (CWO2 – CWO5) (Capt – LtCol) (Dam Neck VA) (7 Days)

      d. Joint Collateral Damage Estimation Course (Sgt-MGySgt) (CWO2 – CWO5) (Capt – LtCol) (Dam Neck VA) (5 Days)

      e. Collateral Damage Estimation (SSgt-MGySgt) (CWO2 – CWO5) (Capt – LtCol) (MTT) (5 Days)

f. High Value Individual (HVI) Targeting (SSgt-MGySgt) (CWO2 – CWO5) (Capt – LtCol) (CENTCOM/MTT) (2 Days)

8. Targeting Recommended Non-Resident Courses

a. MarineNet

(1) Targeting Process (D3A) (Sgt-SSgt) (WO – CWO4) (1stLt – Major)

9. Information Operations Recommended Resident Courses

a. Information Operations Fundamentals Course (Sgt-MSgt) (CWO2 – CWO5) (Capt – LtCol) (EWTG) (5 Days)

b. Tactical Information Operations Course (Sgt-GySgt) (CWO2 – CWO5) (Capt – LtCol) (Ft Sill)

10. Information Operations Recommended Non-Resident Courses

a. JKO

(1) Joint Task Force Fundamentals Course (JTF 101) Module 10: Joint Information Operations (GySgt-MGySgt) (CWO2 – CWO5) (Capt – LtCol)

b. Miscellaneous Courses

(1) Marine-Net

(a) Marine Corps Planning Process (MCPP) (SSgt - MSgt)

(2) JKO

(a) NATO Space Support Course (GySgt – MSgt)

A1004. Course Progression by Rank. The following paragraph outlines both required and recommended, resident and non-resident training courses based on rank, billet, duties and responsibilities.

1. Pvt-LCpl (MOS 0861)

a. General. The following resident and non-resident courses are recommended for all 0861 Privates through Lance Corporals regardless of billet:

(1) Resident Courses

(a) Company Level Fires Operations resident

           (b) TLDHS

           (c) LCpl: Regimental JFO Primer Course

           (d) LCpl: JFO Course

           (e) LCPL: PSS-SOF certification

        (2) Non-Resident Courses

           (a) Basic Forward Observation course

           (b) LCpl: Battlespace Geometry and Control Measures

           (c) LCpl: Fire Support Scheduling

           (d) LCpl: JKO JFO Primer Course

      b.  Battalion to Division systems operators. COC fire C2 systems operators must attend resident courses supporting appropriate echelon requirements but, may attend several of the following:

        (1) Resident courses

           (a) AFATDS / EMT Operators Course

           (b) C2PC / JTCW

           (c) JADOCS (Division and higher unless required by tactical/theater requirement)

           (d) CPOF (When required by tactical / theater requirement)

        (2) Non-resident courses

           (a) C2PC

    2.  <u>Corporal (MOS 0861)</u>

      a.  General.  Regardless of billet / command it is required that all 0861 Corporals attend:

        (1) Regimental JFO Primer Course

        (2) JFO

        (3) Company Level Fires Operations

        (4) TLDHS

(5) PSS-SOF certification

        b.  The following non-resident courses are recommended for
Corporals:

        (1) Basic Forward Observation

        (2) Battlespace Geometry and Control Measures

        (3) Fire Support Scheduling

        (4) JKO JFO Primer Course

        c.  Battalion to Division systems operators.  COC fire C2
systems operators must attend systems resident courses that support
appropriate echelon requirements.  In addition, they are recommended to
attend several of the following resident courses:

        (1) AFATDS / EMT Operators Course

        (2) C2PC / JTCW

        (3) C2PC / JTCW System Administration Course

        (4) JADOCS (Division and higher unless required by
tactical/theater requirement)

        (5) JADOCS System Administration (Division and higher
unless required by tactical / theater requirement)

        (6) CPOF (When required by tactical / theater requirement)

        d.  Battalion to Division systems operators.  The following
non-resident courses are recommended:

         (1) C2PC


    3.  Sergeant (MOS 0861)

        a.  General.  Regardless of billet / command, it is recommended
that all 0861 Sergeants complete non-resident pre-requisites and attend:

        (1) Regimental JTAC Primer Course

        (2) JTAC (MOS 8002)

        (3) PSS-SOF certification

(4) MAGTF fires Chief course (Part of career progression, Sergeants may attend)

(5) Joint Firepower Control Course (Once they have been certified a JTAC)

   b.  The following non-resident courses are recommended for Sergeants:

(1) Joint Terminal Attack Controller (JTAC) Primer Curriculum

(a) Six Functions of Marine Aviation

(b) Introduction to Fire Support in MAGTF Operations

(c)  Battlespace Geometry

(d)  Targeting

(e) Air Command and Control

(f) Close Air Support

(g) Basic Call For Fire

(h) Advanced Call For Fire

(i) Nine-Line

(j) Fixed Wing Employment

(k) Rotary Wing Employment

(2) Joint Close Air Support (JCAS)

(3) Battalion Fires Chief

(a) FSCC

(b) AFATDS / EMT Operator

(c) AFATDS / EMT Supervisor

(d) Bn TMIC Course

(4) Battalion FSCC

(5) Targeting Process (D3A)

c. Regiment to Division operators / supervisors. COC fires C2 systems operators must attend systems resident courses that support appropriate echelon requirements. In addition, they are recommended to attend several of the following resident courses:

(1) AFATDS / EMT Operators Course

(2) AFATDS / EMT Supervisors Course

(3) C2PC / JTCW

(4) JADOCS (Division and higher unless required by tactical/theater requirement)

(5) JADOCS System Administration (Division and higher unless required by tactical/theater requirement)

(6) CPOF (When required by tactical/theater requirement)

d. Targeting personnel. Sergeants that are a part of a targeting section are recommended to attend:

(1) A CDE course

(2) Appropriate fires C2 systems [JADOCS and or JTT (theater dependent)].

(3) Joint Staff Targeting Course (Dependent on the Sgt's responsibilities)

(4) Joint Targeting Application Course (Dependent on the Sgt's responsibilities)

(5) Joint Battle Damage Assessment (Dependent on the Sgt's responsibilities)

(6) High Value Individual (HVI) Targeting (Dependent on the Sgt's responsibilities and theater requirements)

e. IO personnel. Sergeants that are a part of an IO section are recommended to attend:

(1) One of the two resident IO courses or both.

(a) Information Operations Fundamentals Course.

(b) Tactical Information Operations Course Non-Resident Course

(2) Joint Task Force Fundamentals Course

    4.  Staff Sergeant (MOS 0861)

        a.  General.  Regardless of billet / command, it is recommended
that all Staff Sergeants complete all non-resident prerequisites and
attend:

            (1) MAGTF Fires Chief course (Part of career progression,
Staff Sergeants must complete course)

            (2) JTAC (MOS 8002)

            (3) PSS-SOF certification

            (4) Joint Firepower Control Course (Once they have been
certified a JTAC)

        b.  The following non-resident courses are recommended for
Staff Sergeants:

            (1) Joint Terminal Attack Controller (JTAC) Primer
Curriculum

                (a) Six Functions of Marine Aviation

                (b) Introduction to Fire Support in MAGTF Operations

                (c)  Battlespace Geometry

                (d) Targeting

                (e) Air Command and Control

                (f) Close Air Support

                (g) Basic Call For Fire

                (h) Advanced Call For Fire

                (i) Nine-Line

                (j) Fixed Wing Employment

                (k) Rotary Wing Employment

            (2) Joint Close Air Support (JCAS)

        c.  Battalion Fires Chief.  Those Staff Sergeants holding
Battalion Fires Chiefs billet are required attend / complete:

(1) FSCC Course

(2) AFATDS / EMT Operator

(3) AFATDS / EMT Supervisor

(4) Non-Resident

(a) Battalion FSCC

(b) Targeting Process (D3A)

d.  Regt to Division systems supervisors.  COC fires C2 systems Supervisors must attend systems resident courses that support appropriate echelon requirements but may attend several of the following resident courses:

(1) AFATDS / EMT Operators Course

(2) AFATDS / EMT Supervisors Course

(3) C2PC / JTCW

(4) JADOCS (Division and higher unless required by tactical/theater requirement)

(5) JADOCS System Administration (Division and higher unless required by tactical / theater requirement)

(6) CPOF (When required by tactical/theater requirement)

e.  Targeting personnel.  Staff Sergeants that are a part of a targeting section are recommended to attend:

(1) A CDE course

(2) Appropriate fires C2 systems [JADOCS and or JTT (theater dependent)].

(3) Joint Staff Targeting Course (Dependent on the SSgt's responsibilities)

(4) Joint Targeting Application Course (Dependent on the SSgt's responsibilities)

(5) Joint Battle Damage Assessment (Dependent on the SSgt's responsibilities)

(6) High Value Individual (HVI) Targeting (Dependent on the SSgt's responsibilities and theater requirements)

   f.  IO personnel.  Staff Sergeants that are a part of an IO section are recommended to attend:

      (1) One of the two resident IO courses or both.

         (a) Information Operations Fundamentals Course

         (b) Tactical Information Operations Course

      (2) Non-Resident Course

         (a) Joint Task Force Fundamentals Course

   5.  Gunnery Sergeant (MOS 0861)

   a.  General.  Regardless of billet / command all Gunnery Sergeants are required to attend / complete:

      (1) MAGTF Fires Chief course (Part of career progression, those Gunnery Sergeants that have not been able to attend the Chief Course must complete course at the earliest possible opportunity)

   b.  Regiment and Recon Fires Chief.  Those Gunnery Sergeants holding Regt Chief billet must attend:

      (1) FSCC Course

      (2) Regt TMIC

      (3) Non-Resident Courses

         a. Battalion FSCC

         b. Targeting Process (D3A)

         c. Marine Corps Planning Process

   c.  Targeting Chief.  Gunnery Sergeants that are Targeting Chiefs are required to attend:

      (1) Joint Staff Targeting Course

      (2) Joint Targeting Application Course

      (3) Joint Battle Damage Assessment

(4) A CDE course

(5) Appropriate fires C2 systems [JADOCS and or JTT (theater dependent)]

(6) High Value Individual (HVI) Targeting (Dependent theater requirements)

d.  IO personnel.  Gunnery Sergeants that are a part of an IO section are recommended to attend:

(1) One of the two resident IO courses or both.

(a) Information Operations Fundamentals Course

(b) Tactical Information Operations Course

(2) Non-Resident Course

(a) Joint Task Force Fundamentals Course

6.  <u>Master Sergeant (MOS 0861)</u>

a.  General.  Regardless of billet / commands it is required all Master Sergeants attend:

(1) MAGTF fires course

(2) Regt TMIC

(3) Senior Level Fires Chief Operations

(4) Non-Resident Course

(a) Marine Corps Planning Process (if not already completed)

b.  Targeting Chief.  Will attend the following courses:

(1) Joint Staff Targeting Course

(2) Joint Targeting Application Course

(3) Joint Battle Damage Assessment

(4) Joint Fires and Effect Course

(5) A CDE course

(6) Appropriate fires C2 systems [JADOCS and or JTT (theater dependent)]

(7) High Value Individual (HVI) Targeting (Dependent theater requirements)

c.  The following Joint Fires Non-Resident Courses are recommended:

(1) Introduction to Joint Fire Support Course

(2) Introduction to integrated maneuver and fires.

(3)  Joint Task Force Fundamentals Course (JTF 101) Module 9: Joint Fires and Targeting

(4) Introduction to Joint Air and Missile Defense Operations Course

(5) Joint Force Air Component Operations

(6) NATO Space Support Course

7.  Master Gunnery Sergeant (MOS 0861)

a.  General.  Regardless of billet and commands all Master Gunnery Sergeants must complete:

(1) Senior Level Fires Chief Operations (course not developed)

(2) JOFEC

(3) MAGTF fires course

b.  The following Joint Non-Resident Courses are recommended:

(1) Introduction to Joint Fire Support Course

(2) Introduction to integrated maneuver and fires

(3) Joint Task Force Fundamentals Course (JTF 101) Module 9: Joint Fires and Targeting

(4) Introduction to Joint Air and Missile Defense Operations Course

(5) Joint Force Air Component Operations

(6) NATO Space Support Course

8.  Chief Warrant Officer (MOS 0803)

        a.  General.  Chief Warrant Officers in fire sections must
attend resident courses supporting appropriate echelon and theater
requirements.  They are:

            (1)  FSCC

            (2)  MAGTF Fires

            (3)  JOFEC

        b.  The following JKO Non-Resident Courses are recommended:

            (1)  Joint Task Force Fundamentals Course (JTF 101) Module
9: Joint Fires and Targeting

            (2)  Introduction to Joint Fire Support Course

            (3)  Introduction to integrated maneuver and fires

            (4)  Joint Force Air Component Operations

        c.  Targeting.  Targeting Officers will attend:

            (1)  Joint Staff Targeting Course

            (2)  Joint Targeting Application Course

            (3)  Joint Battle Damage Assessment

            (4)  Joint Collateral Damage Estimation Course or Collateral
Damage Estimation (MTT)

            (5)  High Value Individual (HVI) Targeting

            (6)  Appropriate fires C2 systems [JADOCS and or JTT
(theater dependent)]

            (7)  MarineNet

                (a)  Targeting Process (D3A)

        c.  Information Operations.  CWO's that are a part of an IO
section need to attend:

            (1)  One of the two resident IO courses or both.

                (a)  Information Operations Fundamentals Course

(b) Tactical Information Operations Course

(2) Non-Resident Course

a. Joint Task Force Fundamentals Course

9. Lieutenant (MOS 0802)

a. Fire Support Resident courses required / recommended:

(1) FSCC Course (Required for BN-FSO)

(2) BN TMIC (Required for BN FSO if BN FSC attends)

b. Fire Support Non-Resident courses recommended on MarineNet:

(1) Battalion FSCC

(2) Fire Support Planning

(3) Fire Support Scheduling

b. Air related resident courses required & recommended:

(1) Regimental JFO Primer Course

(2) Joint Fires Observer (JFO) (Required for CO FSO)

(3) Regimental JTAC Primer Course

(4) Tactical Air Control Party (EWTG)(MOS 8002, required for BN FSO)

(5) Joint Firepower Control Course (USAF, Nellis AFB)

c. Air Related Non-Resident Courses recommended on MarineNet:

(1) Joint Terminal Attack Controller (JTAC) Primer Curriculum – Curriculum. Course Curriculum:

(a) Six Functions of Marine Aviation

(b) Introduction to Fire Support in MAGTF Operations

(c) Battlespace Geometry

(d) Targeting

                    (e) Air C2

                    (f) Close Air Support

                    (g) Basic Call For Fire

                    (h) Advanced Call For Fire

                    (i)  Nine-Line

                    (j) Fixed Wing Employment

                    (k) Rotary Wing Employment

          d.  Air Related Non-Resident Courses recommended on JKO:

              (1) Joint Close Air Support (JCAS) Course

              (2) JFO Primer Courses


          e.  Fires C2 Systems and Applications Resident Courses
recommended:

              (1) TLDHS

              (2) AFATDS/EMT Supervisor

              (3) CPOF

              (4) PSS-SOF

          f.  Targeting Non-Resident Courses recommended
on MarineNet:

              (1) Targeting Process (D3A)

     10.  <u>Captain (MOS 0802)</u>

          a.  Fire Support Resident Courses required / recommended:

              1.  FSCC Course (Required for BN FSO / AFSO in Regt FSCC)

              2.  BN TMIC (Required for BN FSO if BN FSC attends)

              3.  Regt TMIC (Required for Assistant Regt FSC)

4.  MAGTF Fires (Required if Regt FST Leader or Assistant Regiment Fire Support Team Leader)

5.  Joint Operational Fires & Effect Course (JOFEC) (alternate course to MAGTF Fires)

6.  Tactical Air Control Party (TACP) (required if BN FSO)

b.  Fire Support Non-Resident Courses recommended:

(1) Battalion FSCC

(2) Fire Support Planning

(3) Joint Task Force Fundamentals Course (JTF 101) Module 9: Joint Fires and Targeting

(4) Introduction to Joint Fire Support Course

(5) Introduction to integrated maneuver and fires

c.  Air related resident courses required / recommended:

(1) Joint Firepower Control Course

(2) MAWTS-1 WTI Ground Officers Course

d.  Air Related Non-Resident Courses recommended on MarineNet:

(1)  Joint Terminal Attack Controller (JTAC) Primer Curriculum.  Course Curriculum:

(a) Six Functions of Marine Aviation

(b) Introduction to Fire Support in MAGTF Operations

(c) Battlespace Geometry

(d) Targeting

(e) Air C2

(f) Close Air Support

(g) Basic Call For Fire

(h) Advanced Call For Fire

(i)  Nine-Line

(j) Fixed Wing Employment

(k) Rotary Wing Employment

e.  Air Related Non-Resident Courses recommended on JKO:

(1) Introduction to Joint Air and Missile Defense Operations Course

(2) Joint Close Air Support (JCAS) Course

(3) Joint Force Air Component Operations (JFACO)

f.  Fires C2 Systems and Applications recommended Resident Courses:

(1) TLDHS

(2) JADOCS

(3) CPOF

(4) Joint Targeting Tool Box (JTT)

(5) PSS-SOF

g.  Targeting Resident Courses recommended:

(1) Joint Staff Targeting Course

(2) Joint Targeting Application Course

(3) Joint Battle Damage Assessment

(4) Joint Collateral Damage Estimation Course

(5) Collateral Damage Estimation

(6) High Value Individual (HVI) Targeting

h.  Targeting Non-Resident Courses recommended on MarineNet:

(1) Targeting Process (D3A)

i.  Information Operations Resident Courses recommended

(1) Information Operations Fundamentals Course

(2) Tactical Information Operations Course

11.  Major (MOS 0802)

a.  Fire Support Resident Courses required / recommended:

(1) TMIC Regt Fires Sect (required for Assistant Regt FSC)

(2) MAGTF Fires (required for Assistant Regt FSC)

(3) Joint Operational Fires & Effects Course (JOFEC) (alternate course to MAGTF Fires)

b.  Fire Support Non-Resident Courses recommended:

(1) Joint Task Force Fundamentals Course (JTF 101) Module 9: Joint Fires and Targeting

(2) Introduction to Joint Fire Support Course

(3) Introduction to integrated maneuver and fires

c.  Air related Resident Courses recommended:

(1) Joint Firepower Control Course

(2) MAWTS-1 Air Officers Course

(3) MAWTS-1 WTI Ground Officers Course

d.  Air Related Non-Resident Courses recommended:

(1) Introduction to Joint Air and Missile Defense Operations Course

(2) Joint Force Air Component Operations (JFACO)

e.  Fires C2 Systems and Applications Resident Courses recommended:

(1) JADOCS

(2) Joint Targeting Tool Box (JTT)

f.  Targeting Resident Courses recommended:

(1) Joint Staff Targeting Course

(2) Joint Targeting Application Course

        (3) Joint Battle Damage Assessment

        (4) Joint Collateral Damage Estimation Course

        (5) Collateral Damage Estimation

        (6) High Value Individual (HVI) Targeting

    g.  Targeting Recommended Non-Resident Courses
on MarineNet:

        (1) Targeting Process (D3A)

    h.  Information Operations Resident Courses recommended:

        (1) Information Operations Fundamentals Course

        (2) Tactical Information Operations Course

    i.  Information Operations Non-Resident Courses recommended on
JKO:

        (1) Joint Task Force Fundamentals Course (JTF 101) Module
10: Joint Information Operations

    12. Lieutenant Colonel (MOS 0802)

    a.  Fire Support Resident Courses required / recommended:

        (1)  MAGTF Fires (Required if filling Assistant Division FSC
billet, or fires billet at MEB or MEF FFCC)

        (2)  Joint Operational Fires & Effect Course (JOFEC)
(alternative to MAGTF Fires)

    b.  Fire Support Non-Resident Courses recommended:

        (1) Joint Task Force Fundamentals Course (JTF 101) Module 9:
Joint Fires and Targeting

        (2) Introduction to Joint Fire Support Course

        (3) Introduction to integrated maneuver and fires


    c.  Air Related Non-Resident Courses recommended:

    (1) Introduction to Joint Air and Missile Defense Operations
Course

    (2) Joint Force Air Component Operations (JFACO)

  d. Fires C2 Systems and Applications Resident Courses
recommended:

    (1) JADOCS

    (2) Joint Targeting Tool Box (JTT)

  e. Targeting Resident Courses recommended:
    (1) Joint Staff Targeting Course

    (2) Joint Targeting Application Course

    (3) Joint Battle Damage Assessment

    (4) Joint Collateral Damage Estimation Course

    (5) Collateral Damage Estimation

    (6) High Value Individual (HVI) Targeting

  f. Targeting Non-Resident Courses recommended:

    (1) Targeting Process (D3A)

  g. Information Operations Resident Courses recommended:

    (1) Information Operations Fundamentals Course

    (2) Tactical Information Operations Course

  h. Information Operations Non-Resident Courses recommended:

    (1) Joint Task Force Fundamentals Course (JTF 101) Module
10: Joint Information Operations

A1005. <u>Fire Support Resident Course Descriptions</u>

  1. <u>General</u>. The following section provides a detailed course
description of resident fire support courses.

  2. <u>Company Level Fires Operations</u>

   a. Course ID: NA. This course needs to be developed.

b.   Scope: The course would encompass the concepts, doctrine, principles, and techniques for the planning, coordination, and operational execution of fire support for team, platoon and company sized operations. Instruction includes an overview of the fire support planning, Integration, combat reporting, the proper use of FSCM and the specific operational techniques required for both MCO and COIN and different types of operations (Amphib, Helo, Mech). Practical exercises are provided to reinforce instruction.

c.   Course Length:  5 days

d.   Service:   USMC


3.  FSCC Course

a.   Course ID: N03APJ1

b.   Purpose: To provide U.S. Marine Corps and Navy personnel with the skills needed to work in a battalion level Fire Support Coordination Center during amphibious operations or continuing operations ashore.

c.   Scope: The course encompasses the concepts, doctrine, principles, and techniques for the planning, coordination, and operational execution of fire support for battalion sized operations. Instruction includes an overview of the fire support planning process, the preparation of plans and orders for fire support, and the specific operational techniques required for the coordinated employment of fire support assets. Practical exercises are provided to reinforce instruction, culminating in a final exercise simulating the execution of a battalion level operation.

d.   Prerequisites: Students are required to complete the following Marine Corps Distance Learning Network classes prior to the course: Joint Terminal Attack Controller (JTAC) Primer: Basic Call for Fire (Course Code: JTAC 07) and Joint Terminal Attack Controller (JTAC) Primer: Advanced Call for Fire (Course Code: JTAC 08). JTAC Primer Distance Learning prerequisite for all prospective TACP students.

e.   Registration Procedures.  Go to the Marine Net website https://www.marinenet.usmc.mil/portal/ and follow the below procedures:

(1) Browse "Course Catalog"

(2) Go to "Functional Specialty Training Course"

(3) Scroll down to "Supporting Arms" and this will bring you to the required courses listed below:

(a) JTAC 07: Joint Terminal Attack Controller (JTAC) Primer: Basic Call For Fire

(b) JTAC 08: Joint Terminal Attack Controller (JTAC) Primer: Advance Call For Fire

(4) Ensure you print out all documentation showing the completion of all the above courses and bring this with you for day one of the TACP Course.

(5) In order to get the launch exam icon in your transcripts, you must roll through every slide of the class or you will not get the launch exam icon on your transcripts page.

f.   SECRET clearance is mandatory

g.   Course Length:  10 days

h.   Service:  USMC

i.   Location: EWTG LANT


4.   Expeditionary Fires Primer I

a.   Course ID: N/A

b.   CIN: K-2G-0045


c.   Purpose: To review the principles and techniques utilized in the coordination of Supporting Arms. This course will bring together Navy/Marine members in order to train them as a SACC team in the duties, responsibilities, and functioning of a SACC during an amphibious operation. This course is designed to train the SACC Team prior to conducting SACC exercises and deployment.

d.   Scope: Course consists of lectures and practical work designed as a review of the various supporting arms, discusses principles of fire support planning, role of intelligence and targeting in fire support planning and execution. The course reviews the principles and techniques involved in fire support coordination during both the planning and execution phases of an operation, defines the roles and responsibilities of SACC personnel, and discusses the functioning of a supporting arms coordination center. The course is not designed to exercise unit SACCEX Operations Orders. The course includes twenty hours (24) of practical exercise in the areas of targeting, fire support coordination measures, scheduling of fire support and fire support execution matrices. The course has a final practical exercise. This is a team trainer concept consisting of Navy and Marine personnel who will

perform SACC duties on deployment to include training on the assigned flagship.

       e.  Prerequisites

          (1) Individual must be a member (or detailed to be assigned as a member of):

              (a) PHIBRON or PHIBGRU

              (b) TACRON Staff

              (c) MAGTF Staff and FSCC member

          (2) The majority of the population must be comprised of an actual ATF Supporting Arms Coordination Center.

       f.  SECRET clearance is mandatory

       g.  Course Length:  5 days

       h.  Service:  USMC

       i.  Location: EWTG LANT

   5.  <u>Expeditionary Fires Team Training Course III</u>

       a.  Course ID: NA

       b.  CIN: S-2G-0064

       c.  Purpose: To train deploying ESG/MEU/PHIBRON fires personnel in the planning, coordination, and execution of lethal and non-lethal fires and fire support in a joint/combined environment.

       d.  Scope: This course is the 3rd phase of an Expeditionary Fires Training Program that requires staffs to plan, coordinate and execute simulated fires and fire support. As a follow-on to an Expeditionary Fires Primer and an Expeditionary Fires Systems Integration course, the Advanced Expeditionary Fires Team Trainer will bring together individual collective skills training, and systems integration through a scenario driven exercise conducted in the Joint Expeditionary Tactical Trainer (JETT). This course will train deploying staffs on how to plan, coordinate and execute fires in a dispersed littoral battle space. Training will be conducted at (D-165). Additionally, this training will provide the skills necessary to support FRTP training events, and provide mentoring and exercise construct for deploying staffs, in addition to providing evaluation and observation support during the Expeditionary Fires Exercise (EFEX).

e.  Prerequisites: Both the Expeditionary Fires-Primer and the Expeditionary Fires-System Integration courses are required prerequisites for the Expeditionary Fires Team Training course.

f.  Course Length:  5 days

g.  Service:  USMC

h.  Location: EWTG LANT

6.  Fire Support Chief Course

a.  Course ID:  A20ANY1

b.  Scope:  To provide Marine Fire Support Men with the tactical and technical training necessary to perform the duties of a Fire Support Chief operating in a Battalion or Regimental level Fire Support Coordination Center. Primary emphasis of the course is to qualify students in the Fire Support aspects for the MOS 0861. Subjects taught include communication equipment, procedures and doctrinal communications networks, fire support coordination, fire planning, MAGTF fire support, and Advanced Field Artillery Tactical Data System (AFATDS) operations and employment. Graduates of this course will be capable of performing the core plus tasks of planning, integrating, and executing the attack of enemy targets with lethal and non-lethal fires in support of MAGTF operations. In particular, the graduate will be combat capable of performing duties of the Liaison Chief within an Infantry Battalion/Regimental Fire Support Coordination Center (FSCC) with particular emphasis on the employment of the AFATDS.

c.  Pre-requisites:  Be in the rank of Sergeant through Gunnery Sergeant with the MOS 0861.

d.  Course Length:  42 days

e.  Service:  USMC

f.  Location: Ft Sill

7.  Tactical MAGTF Integration Course (TMIC)

a.  Course ID. NA

b.  CIN: NA

c.  Purpose:  The Tactical MAGTF Integration Course (TMIC) will train Gunnery Sergeant through Master Gunnery Sergeant, Infantry Weapons Officer (Gunner), and Captain through Major from the ground combat MOS's additionally, battalion air officers can attend the full length course.

d.  Scope:  The course includes 341 academic hours taught over 34 training days for an average academic day of 10.03 hours, not including chow and other administrative events.  The course will be conducted over a period of six weeks and is divided into three blocks of instruction. Block 1 is academics and Applications, Block 2 is Ground Combat Element Integration and Block 3 is Final Exercise.  During the Academics and Applications block of the course, students will receive instruction and participate in events focused on enhancing their knowledge in seven primary subjects: Plan, Operate, Joint and Interagency, Intel driven operations, Fires, Information operations and training.  They will be evaluated through performance evaluations for learning objectives from the train duty area.  The course construct will require the three target student populations officer, enlisted, and Gunner to follow slightly separate routes to a unified objective.  Instruction during the academics phase will be generic.  Common or specific-meaning that at times all students will be together and at other times they will be divided into groups based on MOS or rank.  The students join together at key junctures like the Fire Support Practical Exercises so they can execute the specific training each has received in a group setting.

e.  Course Length:  6 weeks (presently modified to 3 weeks)

f.  SECRET clearance is mandatory

g.  Service:  USMC

h.  Location: 29 Palms

8.  <u>MAGTF Fires</u>

a.  Course ID: NA

b.  CIN: K-2G-9054

c.  Purpose:  To provide instruction to active duty and reserve force personnel who are assigned to MEF/MEB level force fires coordination centers, or serve as liaison officers to/from joint/coalition fires sections.  In addition, this course will enhance the ability of supervisors and operators to perform critical warfighting tasks in a joint/coalition environment.

d.  Scope: The course encompasses the concepts, doctrine, principles and techniques for the planning, coordination and operational execution of fire support for MAGTF operations.  Instruction includes joint organizations. MCPP and the fire support planning process, the preparation of plans and orders for fire support, intelligence support to MAGTF fires, the targeting process, airspace command and control of the specific operational techniques required for the coordinated employment of lethal and nonlethal fire support assets in a joint/coalition environment. Practical exercises are provided to reinforce instruction by utilizing

electronic systems normally found at the MEF/MEB FFCC.  An overview of current C4ISR systems and JADOCs training will be provided.

       e.   Pre-requisites:  Officers (O2-O6), enlisted (E5-E9), chief warrant officer (CWO-2-CWO-4), and others (admitted to course on case-by-case basis contingent on course manager approval).  Prior to arrival, students are required to complete the below courses through MarineNet: Air Command and Control (JTAC05), Battlespace Geometry and Control Measures (C0389DBI).  These classes are essential for understanding the additional classes provided during the MAGTF Fires Course.

       f.   SECRET clearance is mandatory

       g.   Course Length:  10 days

       h.   Service:  USMC

       f.   Location: EWTG PAC


   9.   <u>Joint Fires and Effects Course (JOFEC)</u>

       a.   Course ID:  A20KLAZ

       b.   Scope:  To educate all Services, Coalition and Interagency personnel the skills and processes necessary to apply and integrate joint lethal and non-lethal fires and effects. Each student should gain a baseline knowledge of joint and service sensors, capabilities, platforms, battlespace, doctrine, the joint targeting process and how the joint fires and effects system works. It will prepare students for effects based approach to warfighting. Their knowledge will be exercised and validated during a culminating exercise conducted in an immersive simulation environment where they apply and integrate joint lethal and non-lethal fires and effects. This course focuses on Joint Force Doctrine and the integration of this doctrine from the planning phase all the way to execution with the firing unit. This course will educate members of the joint fires and effects team and associated personnel the skills required for integration, coordination and synchronized application of the full range of joint fires and effects (lethal and non-lethal).

       c.   Pre-requisites:  Active Army and Army Reserve, Army National Guard, Marines, Air Force, Navy, O4/O5/O6, WO/CWO, E7/E8/E9, serving in fires and effects coordination cells at brigade equivalent and higher headquarters up to Joint Task Force. An understanding and working knowledge of the Military Decision Making Process is encouraged. All services may attend.

       d.   SECRET clearance is mandatory

       e.   Course Length:  14 days

f.  Service:  Joint

g.  Location: Ft Sill

10.  <u>Senior Level Fires Chief Operations</u>*

a.  Course ID: NA.  This course needs to be developed.

b.  Scope: TBA

c.  Course Length:  10 days

d.  Service:  USMC

e.  Location: Ft Sill

A1006.  <u>Fire Support Non-Resident Course Descriptions</u>

1.  <u>General</u>.  The following section provides a detailed course description of non-resident fire support courses.

2.  <u>Basic Forward Observation - Course</u>

a.  Course ID:  0861

b.  Scope: Provides instruction on the principles and techniques for adjusting supporting arms fire.

c.  Length: 12 hrs

3.  <u>The Battalion FSCC - Course</u>

a.  Course ID:  C0389DAI

b.  Scope:  The Battalion FSCC Course focuses on the following the areas:

(1) The various fire support coordination agencies and describe their relationship with the battalion FSCC,

(2) Maneuverable nature of the FSCC,

(3) Battalion FSCC personnel and their duties and responsibilities,

(4) The tools and equipment used by a battalion FSCC and

(5) The purpose and use of fire support communication networks.

c.  Length:  2 hr

4.  Battlespace Geometry and Control Measures – Course

   a.  Course ID:  C0389DBI

   b.  Scope:  The Battlespace Geometry and Control Measures Course focuses on the following the areas:

      (1)  Battlespace geometry to include its purpose and use,

      (2) The purpose, definition, establishment, and graphic portrayal of permissive fire support coordinating measures (FSCMs),

      (3) The purpose, definition, establishment, and graphic portrayal of restrictive FSCMs,
      (4) Maneuver control measures that may impact FSCMs and their graphic portrayal, the purpose and graphic portrayal of additional geometry measures that may impact FSCMs,

      (5) The impact of various battlespace geometry measures on fire support coordination.

   c.  Length:  2 hr

5.  Fire Support Planning - Course

   a.  Course ID:  C0389DCI

   b.  Scope:  The Fire Support Planning Course focuses on the following the areas:

      (1) The fire support planning components of an Operation Order (OPORD),

      (2) The structure and commonly found tabs and enclosures within Appendix 19 to Annex C of an OPORD,

      (3) The different types of fire support planning,

      (4) The fire support planning steps taken during each step of the Marine Corps Planning Process (MCPP),

      (5) The fire support planning outputs,

      (6) The four parts of an essential fire support task (EFST),

(7) The development of an essential fire support task (EFST),

(8) The purpose and components of a fire support execution matrix (FSEM),

(9) A fire support execution matrix (FSEM) and

(10) The types of fire support rehearsals and their purpose.

c. Length:  2 hr

6. Fire Support Scheduling - Course

a. Course ID:  C0389DEI

b. Scope:  The Fire Support Scheduling Course focuses on the following the areas:

(1) The components of a target list worksheet,

(2) A target list worksheet,

(3) The components of a scheduling worksheet,

(4) A group of targets and the procedures for scheduling them

(5) A series of targets and the procedures for scheduling them,

(6) A preparation fire and considerations, phases, procedures, and gaps when scheduling them,

(7) A group of targets using a scheduling worksheet,

(8) A series of targets using a scheduling worksheet and

(9) A preparation fire using a scheduling worksheet.

c. Length:  2 hr

7. EWS Fire Support Coordination

a. Course ID:  8654FS

b. Scope:  The EWS Fire Support Coordination self-paced course focuses on three key areas:

(1)  Targeting and Scheduling Products, to include MCFSS naming conventions, targets and worksheets;

　　　　　　(2) Fire Support Coordinating Measures, to include permissive and restrictive FSCM(s); and

　　　　　　(3) Close Air Support, to include integration, requests, and forms. This online course is designed to support the EWS PME. Enrolling in this course / curriculum does not officially enroll you in the EWSDEP, this is merely a supplemental course developed to assist the student enrolled in the EWSDEP curriculum.

　　　　c.  Length:  5 hr

　　8.  Joint Task Force Fundamentals Course (JTF 101) Module 9: Joint Fires and Targeting

　　　　a.  Course ID:  J3OP-US013-09

　　　　b.  Scope:  The Joint Fires and Targeting module provides an overview of joint fires and targeting to a joint force commander (JFC) and staff. Topics include fires and targeting definitions, synchronization of joint fires, the joint targeting cycle, and organizations supporting joint fires and targeting.

　　　　c.  Course Length:  2 hr

　　9.  Introduction to Joint Fire Support Course

　　　　a.  Course ID:  J3OP-US019

　　　　b.  Scope:  This course provides basic background knowledge and comprehension of key Joint Fire Support tasks, including: Joint Fire Support Overview, Joint Fire Support Basic Concepts, Joint Fire Support Employment Considerations, Joint Fire Support Systems, Joint Fire Support Planning, and Joint Fire Support Coordination and Execution. The course will prepare individuals assigned as members of a Service Component, Functional Component, or supporting staffs to more effectively accomplish their assignments during joint events, joint exercises, and real-world operations.

　　　　c.  Course Length:  1.5 hr

　　10.  Introduction to Integrated Maneuver and Fires

　　　　a.  Course: J3TA-US015

　　　　b.  School: 772

c.  Scope: This course provides basic background knowledge and comprehension of Joint Battlespace Maneuver with Integrated Firepower, including: The Relationship Between Maneuver and Firepower (Fires), Joint Maneuver Capabilities, Firepower Capabilities, Maneuver and Fires Integration and Interdependence, and Joint Command and Control (C2) Coordination Elements. The course will prepare individuals assigned as members of Service Component, Functional Component, or supporting staffs to more effectively accomplish their assignments during joint events, joint exercises, and real-world operations.

d.  Course Length: 0 Weeks 0.7 Days

A1007.  Air Related Recommended Resident Course Descriptions

1.  General.  The following section provides a detailed course description of the recommended air related resident courses.

2.  Joint Fires Observer (JFO)

a.  Purpose: The JFOC is designed to provide select joint personnel with training in engaging targets with AC-130, naval surface fires, indirect surface fires and on procedures for providing timely and accurate targeting information to a qualified JTAC for Type 2 and 3 Close Air Support (CAS) Terminal Attack Controls, and conducting Terminal Guidance Operations (TGO).

b.  Scope: Students will be trained on the call for fire and adjustment procedures for all indirect fire assets to include Naval Surface Fire Support (NSFS), Marine Corps, Navy, Army, and Air Force Aviation, and operation of communication and laser equipment in a joint environment.

c.  Pre-requisites:  Students are required to successfully complete the JFO Distance Learning Program prior to the course. Students are required to complete the JFO Pre-requisites to be administered and signed by the senior member of the TACP in the student's unit. These requirements shall be fulfilled within 90 days prior to course commencement. The student must have a minimum GT score of 100 and possess at least an interim SECRET clearance.

d.  Course Length:  10 days

e.  Service:  USMC

f.  Location:  EWTG's & Ft Sill

3.  Joint Terminal Attack Controller

a.  Purpose: To train U.S. Marines in the joint tactics, techniques and procedures used for controlling and integrating the broad

spectrum of fire support and air power available to the Marine Air-Ground Task Force (MAGTF) or Joint Task Force (JTF) Commander with a focus on Close Air Support. USMC Naval Aviators and Naval Flight Officers who successfully complete the course of instruction will be certified as Joint Terminal Attack Controllers (JTAC), will receive the 7502 skill designator MOS, will be eligible for JTAC qualification and will be prepared to serve as a Forward Air Controller (FAC) or staff Air Officer (AO). USMC Ground Combat Arms Officers and SNCO's who successfully complete the course will be certified as JTACs and receive the 8002 skill designator MOS.

   b.   Scope: The course encompasses the concepts, doctrine and principles used in the employment of air power in support of MAGTF or JTF operations. The curriculum prepares students to accomplish eight broadly based mission-essential duties and includes instruction in both planning and employing air power as an integrated fire support asset or force multiplier in support of the ground combat scheme of maneuver.

The TACP Course curriculum meets the requirements outlined by the Joint Close Air Support (JCAS) Action Plan Memorandum of Agreement (MOA) 2004-1 Joint Terminal Attack Controller (JTAC) (Ground) and NAVMC 3500 Tactical Air Control Party (TACP) Training and Readiness (T&R) Manual.

   c.   Pre-requisites:  JTAC Primer Distance Learning prerequisite for all prospective TACP students:
After registering to https://www.marinenet.usmc.mil/portal/ :

      (1) Browse "Course Catalog"

      (2) Go to "Functional Specialty Training Course"

      (3) Scroll down to "Supporting Arms"

      (4) Scroll down to "Joint Terminal Attack Controller (JTAC) Primer Curriculum", select click "Enroll""Enroll" again.  You are now enrolled in the following 11 classes:

         (a) JTAC01: 6 Functions of Marine Aviation

         (b) JTAC02: Introduction to Fire Support in MAGTF Operations

         (c) JTAC03: Battlespace Geometry

         (d) JTAC04: Targeting

         (e) JTAC05: Air Command and Control

         (f) JTAC06: Close Air Support

         (g) JTAC07: Basic Call For Fire

(h) JTAC08: Advanced Call For Fire

(i) JTAC09: Nine-Line

(j) JTAC10: Fixed Wing Employment

(k) JTAC11: Rotary Wing Employment

* NOTES * Ensure you print out all documentation showing the completion of all the above courses and bring this with you for day one of the TACP Course. In order to get the launch exam icon in your transcripts, you must roll through every slide of the class or you will not get the launch exam icon on your transcripts page.

(5) Prerequisites for assignment to the TACP Course are listed in the Tactical Air Control Party Training and Readiness Manual (NAVMC 3500) and the MOS Manual (MCBUL 1200).

d. Location: EWTG's

4. Joint Firepower Course

a. Course ID: F27M7K2

b. Scope: Trains concepts, doctrine, procedures and techniques for integrating combat firepower in joint operations. Emphasis is on planning and coordination at tactical operational levels and integrating Air Force air support into Army operations up to and including the division level. Air Force students receive training in procedures and techniques of forward air control. Air Force officers in training to be Air Liaison officers attend a four day field training exercise at Fort Irwin, California to introduce field operations and the integration of close air support into Army operations. Tactical Air Command and Control Specialists (TACCs) certifying as Enlisted Terminal Attack Controllers (ETACs) attend a four day field training exercise to control aircraft.

c. Pre-requisites: USMC personnel should have SECRET clearance indicated on orders and a physiological training certificate valid through the graduation date. Successful completion of water survival training is mandatory and medical certification indicating proper flying status is required. This training required for OV-10 Pilot Training, (TQM M23P3A1), MCAS Camp Pendleton, CA.

d. Course Length: 14 days

e. Service: USAF

f. Location: Nellis AFB, NV

A1008. Air Related Recommended Non-Resident Course Descriptions

1.  <u>General</u>.  The following section provides a detailed course description of the recommended air related non-resident courses.

2.  <u>Joint Terminal Attack Controller (JTAC) Primer Curriculum - Curriculum</u>

    a.  Course ID:  JTAC

    b.  Scope:  The Joint Terminal Attack Controller (JTAC) Primer curriculum provides prerequisite training as required in the Tactical Air Control Party (TACP) Training and Readiness Manual (MCO P3500.37A) for students planning to attend the resident Tactical Air Control Party (TACP) Course for designation as a JTAC or Forward Air Controller (FAC). It also may be used to provide initial and refresher training in joint Close Air Support and Supporting Arms procedures for Marines assigned to TACPs, Company Fire Support Teams and Battalion Fire Support Coordination Centers. This curriculum focuses on the JTAC's roles, responsibilities, and duties within the overall mission of planning, requesting and controlling fires and aviation assets at the tactical level. This eleven-course curriculum consists of instruction and practical exercises in the following areas:

        (1) Air Command and Control

        (2) Basic Call for Fire

        (3) Advanced Call for Fire

        (4) Fixed Wing Employment

        (5) Developing a Nine Line Brief

        (6) Close Air Support

        (7) Rotary Wing Employment

        (8) Six Functions of Marine Aviation

        (9) Fire Support in MAGTF Operations

        (10) Battlespace Geometry and Control Measures

        (11) Targeting

    c.  Length:  19.25 hrs

3.  <u>Six Functions of Marine Aviation</u>

    a.  Course ID:  JTAC01

b.   Scope:  The Joint Terminal Attack Controller (JTAC) Primer is an eleven-course curriculum which focuses on the JTAC's roles, responsibilities, and duties within the overall mission of planning, requesting and controlling fires and aviation assets at the tactical level. This course, Six Functions of Marine Aviation, is a part of the JTAC curriculum, and is intended to introduce the student to the six functions of Marine Aviation, and capabilities, equipment and missions of each function. The student is also introduced to some structural and administrative features of Marine Aviation units. Students may enroll in this course without enrolling in the entire JTAC curriculum.

c.   Length:  1 hr

4.   Introduction to Fire Support in MAGTF Operations

a.   Course ID:  JTAC02

b.   Scope:  The Joint Terminal Attack Controller (JTAC) Primer is an eleven-course curriculum which focuses on the JTAC's roles, responsibilities, and duties within the overall mission of planning, requesting and controlling fires and aviation assets at the tactical level. This course is a part of the JTAC curriculum, and provides an understanding of MAGTFs, their elements, and how fire support coordination is integrated into the MAGTF. Students may enroll in this course without enrolling in the entire JTAC curriculum if desired.

c.   Length:  1.25 hr

5.   Battlespace Geometry

a.   Course ID:  JTAC03

b.   Scope:  The Joint Terminal Attack Controller (JTAC) Primer is an eleven-course curriculum which focuses on the JTAC's roles, responsibilities, and duties within the overall mission of planning, requesting and controlling fires and aviation assets at the tactical level. This course is a part of the JTAC curriculum, and focuses on the following areas:

(1) Battlespace geometry, to include its purpose and use;

(2) The purpose, definition, establishment, and graphic portrayal of permissive fire support coordinating measures (FCSMs);

(3) The purpose, definition, establishment, and graphic portrayal of restrictive FSCMs;

(4) Maneuver control measures that may impact FSCMs and their graphic portrayal, the purpose and graphic portrayal of additional geometry measures that may impact FSCMs;

(5) The impact of various battlespace geometry measures upon fire support coordination.

(6) Students may enroll in this course without enrolling in the entire JTAC curriculum if desired.

c.  Length:  1.5 hrs

6.  <u>Targeting</u>

a.  Course ID:  JTAC04

b.  Scope:  The Joint Terminal Attack Controller (JTAC) Primer is an eleven-course curriculum focusing on the JTAC's roles, responsibilities, and duties within the overall mission of planning, requesting and controlling fires and aviation assets at the tactical level. This course is a part of the JTAC curriculum and introduces the basic concepts of targeting, the methodology used, and some of the important products and tools derived from the targeting process. Covering all aspects of targeting and the targeting process is beyond the scope of this lesson. Students may enroll in this course without enrolling in the entire JTAC curriculum if desired.

c.  Length:  1 hr

7.  <u>Air Command and Control</u>

a.  Course ID:  JTAC05

b.  Scope:  The Joint Terminal Attack Controller (JTAC) Primer is an eleven-course curriculum focusing on the JTAC's roles, responsibilities, and duties within the overall mission of planning, requesting and controlling fires and aviation assets at the tactical level. This course is a part of the JTAC curriculum, and discusses each service's air command and control system and how they work together in a joint environment. Students may enroll in this course without enrolling in the entire JTAC curriculum if desired.

c.  Length:  2.5 hrs

8.  <u>Close Air Support</u>

a.  Course ID:  JTAC06

b.  Scope:  The Joint Terminal Attack Controller (JTAC) Primer is an eleven-course curriculum focusing on the JTAC's roles, responsibilities, and duties within the overall mission of planning, requesting and controlling fires and aviation assets at the tactical level. This course is a part of the JTAC curriculum and provides an

introduction to the aspects, definitions, and procedures involved in planning and controlling a day and night Type 1 CAS mission. Students may enroll in this course without enrolling in the entire JTAC curriculum if desired.

c.  Length:  2.5 hrs

9.  Basic Call For Fire

a.  Course ID:  JTAC07

b.  Scope:  The Joint Terminal Attack Controller (JTAC) Primer is an eleven-course curriculum focusing on the JTAC's roles, responsibilities, and duties within the overall mission of planning, requesting and controlling fires and aviation assets at the tactical level. This course is a part of the JTAC curriculum. Subjects covered are: introduction to basic call for fire (CFF) procedures, to include: target identification and location, proper radio transmissions involved in artillery/mortar CFF, conducting spottings and corrections, end of mission reports, and the standards for the CFF and special situations such as establishing conditions and procedures for angle T and 'Danger Close'. Students may enroll in this course without enrolling in the entire JTAC curriculum if desired.

c.  Length:  1.5 hrs

10.  Advanced Call For Fire

a.  Course ID:  JTAC08

b.  Scope:  The Joint Terminal Attack Controller (JTAC) Primer is an eleven-course curriculum focusing on the JTAC's roles, responsibilities, and duties within the overall mission of planning, requesting and controlling fires and aviation assets at the tactical level. This course is a part of the JTAC curriculum. Subjects covered are: introduction to the tactics, techniques, and procedures (TTPs) involved in conducting: naval gunfire CFF, continuous and coordinated illumination missions, and suppression of enemy air defense (SEAD) missions. Students may enroll in this course without enrolling in the entire JTAC curriculum if desired.

c.  Length:  2 hrs

11.  Nine-Line

a.  Course ID: JTAC09

b.  Scope:  The Joint Terminal Attack Controller (JTAC) Primer is an eleven-course curriculum focusing on the JTAC's roles,

responsibilities, and duties within the overall mission of planning, requesting and controlling fires and aviation assets at the tactical level. This course is a part of the JTAC curriculum and contains information about the nine elements of the close air support, or CAS, brief, also called the 9-Line brief, and the procedures to properly transmit them. Students may enroll in this course without enrolling in the entire JTAC curriculum if desired.

       c.   Length:  1.5 hrs

    12.  <u>Fixed Wing Employment</u>

       a.   Course ID:  JTAC10

       b.   Scope: The Joint Terminal Attack Controller (JTAC) Primer is an eleven-course curriculum focusing on the JTAC's roles, responsibilities, and duties within the overall mission of planning, requesting and controlling fires and aviation assets at the tactical level. This course is a part of the JTAC curriculum. Subjects covered are: introduction to aviation ordnance, its effects, its proper and common names, "danger close" distances, and risk estimate distances. Also includes instruction on Joint Direct Attack Munitions (JDAM) employment and aspects of fixed-wing (FW) integration in a CAS environment. Students may enroll in this course without enrolling in the entire JTAC curriculum if desired.

       c.   Length:  3 hrs

    13.  <u>Rotary Wing Employment</u>

       a.   Course ID:  JTAC11

       b.   Scope: The Joint Terminal Attack Controller (JTAC) Primer is an eleven-course curriculum focusing on the JTAC's roles, responsibilities, and duties within the overall mission of planning, requesting and controlling fires and aviation assets at the tactical level. This course is a part of the JTAC curriculum and discusses the capabilities and limitations of attack helicopters, the three primary U.S. attack helicopters in use today, and the ordnance they carry, with special emphasis on the TOW and HELLFIRE missiles. Students may enroll in this course without enrolling in the entire JTAC curriculum if desired.

       c.   Length:  1.5 hrs

    14.  <u>EWS Marine Air Command and Control Systems</u>

       a.   Course ID:  8654MA

       b.   Scope:  The EWS MACCS self-paced course focuses on a global view of the MACCS and the Marine Air Control Group C2 Nodes and

Agencies. This online course is designed to support the EWS PME. Enrolling in this course / curriculum does not officially eroll you in the EWSDEP, this is merely a supplemental course developed to assist the student enrolled in the EWSDEP curriculum.

      c.  Length:  3 hrs

    15.  <u>EWS: Graphic and Airspace Control Measures - Course</u>

      a.  Course ID:  CC03AO

      b.  Scope:  The EWS GCM/ACM self-paced course focuses on three key areas:

        (1) Unit Symbols, to include symbols, fields, and equipments symbols;

        (2) Graphic Control Measures, to include offensive and defensive operations, and fire support; and

        (3) Airspace Control Measures, to airspace control documents and common airspace control measures.
This online course is designed to support the EWS PME. Enrolling in this course / curriculum does not officially enroll you in the EWSDEP, this is merely a supplemental course developed to assist the student enrolled in the EWSDEP curriculum.

      c.  Length:  3 hrs

    16.  <u>Introduction to Joint Air and Missile Defense Operations Course N/S/IP</u>

      a.  Course ID:  J3OP-US020

      b.  Scope:  This course provides basic background knowledge and comprehension of key Air and Missile Defense tasks, including: Introduction to Counterair, Command and Control for Counterair, Offensive Counterair Operations, Defensive Counterair Operations, and Homeland Defense. The course will prepare individuals assigned as members of a Service Component, Functional Component, or supporting staffs to more effectively accomplish their assignments during joint events, joint exercises, and real-world operations.

      c.  Course Length:  1.25 hrs

    17.  <u>Joint Close Air Support (JCAS) Course N/S/IP</u>

      a.  Course ID:  J3OP-US024

b.   Scope:  This course is designed to provide basic background knowledge and comprehension of key JCAS tasks to prepare individuals assigned as members of a Service Component, Functional Component, or supporting staffs to more effectively accomplish their assignments during JNTC events, other joint exercises, and real-world operations.

c.   Course Length:  1 hr

18.   Joint Force Air Component Operations (JFACO) Course N/S/IP

a.   Course ID:  J3OP-US025

b.   Scope:  This is a multi-module, web-based course that provides distance learning to personnel that, as members of combatant command staffs, will interface with the Joint Force Air Component Commander (JFACC); personnel that will augment the JFACC; and personnel that will liaise with the JFACC.

c.   Course Length:  2 hrs

A1009.  Fires C2 Systems and Applications Recommended Resident Course Descriptions

1.   General.  The following section provides a detailed course description of the recommended fires C2 systems and applications resident courses.

2.   Expeditionary Fires Systems Integration II

a.   Course ID: NA

b.   CIN: S-2G-0065

c.   Purpose: The Expeditionary Fires Systems Integration Course will Train staffs on how to use integrated Command and Control (C2) and fire support systems. It is conducted for the fires/intel/ops personnel of the ESG/ESF, MEB/PHIBGRU, MEU/PHIBRON and consists of lecture and practical application on fires systems and the integration of those systems with other systems. This training will usually take place following the Fires Primer within the Fleet Readiness Training Plan (FRTP).

d.   Scope: Course consists of lectures and practical applications designed to introduce those personnel who will work on or with fire support systems how to integrate their fire support system with other C2 systems. The course of instruction teaches personnel the integration of digital fire support systems and the automated processing of fire support coordination on system that include: Advanced Field

Artillery Tactical Data System (AFATDS), Effects Management Tool (EMT), Command and Control Personal Computer (C2PC), Theater Battle Management Core System (TBMCS) and Automated Deep Operations Coordination Systems (ADOCS). Personnel are trained on the automated processing of fire support coordination.

       e.  Prerequisites: The Expeditionary Fires Primer Course (K-2G-0045) or the Fires Support Coordination Course (J-2E-4316) are required prerequisites for the Systems Integration Course.

       f.  Course Length:  5 days

       g.  Service:  USMC

       h.  Location: EWTG LANT


   3.  AFATDS/EMT Operator

       a.  Course ID: M10KDJT

       b.  Purpose: The purpose of the Advance Field Artillery Tactical Data System (AFATDS) Operator Course is to provide Marines the knowledge skills to operate and maintain AFATDS and display AFATDS-based products in support of warfighting functions.

       c.  Scope: The scope of this course includes instruction in the identifying key characteristics of the software and components of the workstation.  Students will learn how to construct unit data, manage geometries and system attack parameters, manage target lists, initiating fires in support of the mission and troubleshooting the system in the event of communications failure.
Prerequisites: This course is designed for Marines who will utilize AFATDS in order to manage fires and air assets during MAGTF Operations.  There are no prerequisites for this course.

       d.  Course Length: 5 days

       e.  Service: USMC

       f.  Location:  MISTC

   4.  AFATDS/EMT Supervisor

       a.  Course ID: N/A

       b.  Purpose: N/A

       c.  Location: MISTC

5.  C2PC/JTCW

    a.  Course ID: M10KDET

    b.  Purpose: This class is designed to familiarize the student in basic C2PC/ JTCW Client operation to function when assigned a billet in a Combat Operation Center (COC). C2PC/JTCW Client is not limited to COC Operations and is utilized by other functional areas of the MAGTF. Scope: This course instructs the student on installing C2PC, the menus to include tool bars, mapping, Routes Application Extension (AE), Overlays AE, Decision Support Tool Box (DSTB) AE, and the Trackplot AE. In addition, the student will learn C2PC Networking schemes, Gateway Manager and gateway connection creating communications through C2PC to send and/or receive information. When completing this course an individual will be able perform any basic task of a C2PC operator. Prerequisites: This course is designed for Marines assigned to the Operating Forces who require the use of C2PC/JTCW Client in the performance of their billet.  Student must have a basic knowledge of Computers/Microsoft operating systems prior to attending class.  There are no prerequisites to attending this course.

    c.  Course Length: 4.5 days

    d.  Service: USMC

    e.  Location: MISTC

6.  JADOCS Operator

    a.  Course ID: M10KDHT

    b.  Purpose: The purpose of the Joint Automated Deep Operations Coordination System (JADOCS) Operator Course is to provide Marines with the knowledge and skills to operate and maintain JADOCS and display JADOCS based products in support of warfighting functions.

    c.  Scope: The scope of this course includes identifying JADOCS capabilities, maintaining overlays and filters, how to employ Managers, such as Joint Fires, Target Data Nominator, Joint Time Sensitive Target, Coordination and Fires Manager in order to support the MAGTF operations. Prerequisites: This course is designed for Marines assigned to billets, commonly at Regiment and higher, who are responsible for coordinating Fires and Air assets in support of MAGTF Operations.

    d.  Course Length: 5 days

    e.  Service: USMC

    f.  Location: MISTC

7.  JADOCS System Administration

    a.  Course ID: M10KDKT

    b.  Purpose: The purpose of the JADOCS System Administration Course is to provide Marines with the knowledge and skills to load, configure, and maintain JADOCS systems so that the different functionalities can be performed by the respective clients.

    c.  Scope: The scope of this course will instruct students on being able to establish links between the JADOCS server and clients and external systems such as  IOS, GCCS, AFTADS and C2PC, so that these systems exchange information.  Additional instruction includes troubleshooting the system during operation.

    d.  Prerequisites: Students must possess a Secret clearance, and have attended the JADOCS Operator Course and have a basic working knowledge of Marine Corps C2 systems.

    e.  Course Length: 5 days

    f.  Service: USMC

    g.  Location: MISTC

8.  CPOF Operator

    a.  Course ID: NA

    b.  Purpose: The Command Post of the Future (CPoF) Basic Operator course will instruct students on the proven practices and techniques used to operate the system, view the common tactical / operational picture and allow collaboration between users utilizing various system tools to manipulate data on a graphical map and sharing that map view with other users across the CPoF network.

    c.  Scope: Command Post of the Future is a tactical collaboration tool that allows users to view and share battlefield situational awareness in both data and / or graphical format. The scope of this course includes an introduction to CPoF network and application familiarization, functionality and management of map data in a 2 and 3 Dimensional view, use and management of shared products, using tables to manipulate data, use of schedules to organize tasks and resources, display data from various C2 systems to provide a centralized view of the battlespace, capturing and import images, utilize voice and text chat services and prepare and conduct briefs.  This course supports the C2 T&R Manual event C2OP-OPER-1002 Operate Command Post of the Future. Prerequisites: This course is designed for Marines assigned to the operating forces and fulfilling a position inside a Combat Operations Center (COC) which requires the use of CPoF.  Those attending this course

should have a basic knowledge of Windows XP operating system and possess basic computer skills.  There are no prerequisites for this course.

        d.   Course Length: 3 days

        e.   Service: USMC

        f.   Location: MISTC

    9.  PSS-SOF

        a.   Course ID: N/A

        c.   Purpose: N/A

        d.   Duration: 3 Days

        e.   Location: Ft Sill / MAWTS 1


**A1010.  Fires C2 Systems and Applications Recommended Non-Resident Course Descriptions**

    1.  General.  The following section provides a detailed course description of the recommended fires C2 systems and applications non-resident courses.

    2.  C2PC - Course

        a.   Course ID:  C2P001

        b.   Scope:  Command and Control Personnel Computer is a course designed to be completed by students in one working day. The course will familiarize the student with the procedures necessary to effectively operate the C2PC software. This training is meant to be a supplement to resident training for C2PC operators and should not be used in lieu of that training except when it is completely unavailable.

        c.   Length:  8 days

**A1011.  Targeting Recommended Resident Course Descriptions**

    1.  General.  The following section provides a detailed course description of the recommended targeting resident courses.

    2.  Joint Targeting Staff Course

        a.   Course ID:  N46HFS3

b.  Scope:  To provide the Department of Defense with formal joint targeting training for mid-career operations and intelligence personnel destined for Unified Commands, the Joint Staff, Defense agencies, and designated Service positions involving targeting.  The focus is on the application of the six-step Joint Targeting Cycle at the theater and operational levels of war: 1) Objectives and Guidance, 2) Target Development, 3) Weaponeering Assessment, 4) Force Application, 5) Execution Planning/Force Execution, and 6) Combat Assessment. The curriculum starts with an introduction to the organizational structures and systems employed by the four services and DOD support agencies. The remainder of the course involves the presentation of concepts and theory associated with each step of the targeting cycle, which is reinforced through practical application exercises.

c.  Pre-requisites:

(1) Sgt or above, in an FMF (operating force) targeting chief or targeting officer billet requiring a comprehensive knowledge of joint targeting operations and procedures. This course as it is set in the TQM schedule, is a compilation of 2 sub-courses: the joint targeting staff course and the joint targeting applications course. A. Marines who are inbound to or currently assigned to a joint targeting billet should be funded by joint funds and can attend either or both sub-courses as required by their specific joint billet assignment.

(2) Marines from the Marine Corps operating forces, attending this course who are funded by MCCDC funds under the purview of this TQM will be required to attend both sub-courses concurrently. This is how the TQM schedule is purposely designed for 2 reasons:

(a) The purpose of marines from the Marine Corps operating forces, having MCCDC funded seats to attend this course, is to provide them a comprehensive knowledge of joint targeting operations and procedures and to enhance their ability to operate in conjunction with a JTF targeting scenario or operation.  The only way to achieve this is to attend both sub-courses.

(b) It is not cost effective for MCCDC funded marines to attend one segment of this course and return at a later time for the other segment. The additional cost of transportation (doubled) would make this an ineffective and wasteful use of government funds and absolutely cost prohibitive.

d.  Course Length:  35 days

e.  Service:  Joint

f.  Location: Dam Neck, NAS

3.  Joint Targeting Application Course

a.   Course ID:  X5OZN14N3 0B5A


        b.   Course Description:  The purpose of this course is to
provide the Department of Defense with formal joint targeting training for
mid-career operations and intelligence personnel destined for Unified
Commands, the Joint Staff, Defense Agencies, and designated Service
positions involving targeting.  The focus of this course is on the
Weaponeering process and concepts of weapon delivery accuracy, damage
mechanisms, and damage criteria are covered along with an introduction to
the software tools used for damage prediction calculations.  The
curriculum reinforces the use of weaponeering software and specific
methodologies through practical application exercises.

        c.   Prerequisites:  Mid-career officer or enlisted
intelligence, operations, and planning personnel involved in targeting on
Combatant Command or Joint Task Force eligible staffs.

        d.   Security:  Secret

        e.   Length:  5 days

        f.   Service:  Joint

        g.   Location:  Dam Neck NAS

    4.  Joint Battle Damage Assessment Course

        a.   Course ID:  N46HFQ3

        b.   Scope:  To provide the Department of Defense with formal
joint Battle Damage Assessment training for mid-career operations and
intelligence personnel destined for Unified Commands, the Joint Staff,
Defense agencies, and designated Service positions involving targeting.
The Battle Damage Assessment course provides procedures, techniques and
methodology for the Battle Damage Assessment process. The focus is on the
methodologies employed to accurately assess and communicate the
effectiveness of military force delivered against a variety of generic
targets and target models are presented in a lecture and exercise format.
The course incorporates a practical application exercise to reinforce
classroom instruction.

        c.   Pre-requisites:

        (1) Sergeant or above, MOS 0241.  MOS and rank waivers can
be granted by the respective G-3T MARFORPAC/LANT based on appropriate G2
or G3 recommendations for any marine who requires this training.  Priority
will be given to marines with a specific need to attend this course due to

their current billet and mission requirements.  Provide justification and statement of priority with all nomination requests. C. Secret clearance is required and must be faxed to the joint targeting school at fax # DSN 492-0280, or commercial (757) 492-0280, NLT 2 weeks prior to arrival at the school.

        d.   Course Length:  7 days

        e.   Service:  Joint

        f.   Location: Dam Neck, NAS

    5.   <u>Joint Collateral Damage Estimation Course</u>

        a.   Course ID:  X5OZN14N3 0Z1A

        b.   Course Description:  The Joint Collateral Damage Estimation (CDE) Training and Certification Program is a 40 hour course of instruction accredited by the Joint Technical Coordinating Group for Munitions Effectiveness (JTCG/ME) and endorsed by the Military Targeting Committee (MTC), leading to individual certification as a CDE Basic Analyst or CDE Analyst Instructor.  Based on Chairman of the Joint Chiefs of Staff Manual (CJCSM) 3160.01, training is focused on the CDE Assessment Process, Casualty Estimation, Mitigation Techniques, and CDE Automation Tools.  The course consists of instruction, practical exercises, and reviews that prepare the student for the end of course comprehensive examination.

        c.   Prerequisites:  Mid-career officer or enlisted intelligence, operations, and planning personnel involved in targeting on Combatant Command or Joint Task Force eligible staffs.   Any rank below E-5 will not attend this Navy course.

        d.   Special Notes:  The CDE POI is very challenging. Students with a well developed understanding of weapon effects, Joint Targeting Principles, algebra, physics, and good study habits are equipped to do well in the CDE Training and Certification Course. Though there are no rank restrictions designated for this instruction, E-6s and below normally struggle to master the concepts and processes of CDE and score very poorly on the end of course examination. The JTCG/ME and MTC highly recommend commands designate E-7s, E-8s, WO1, CW5, and O-1, O-5 with direct targeting, fires, and CDE responsibilities to attend this instruction.

        e.   Security Clearance:  Secret

        f.   Length:  5 days (1 week course)

        g.   Location:  Dam Neck NAS

7.  <u>Collateral Damage Estimation Course</u>

    a.  Course ID:  N/A

    b.  Course Description: Teaches the methodology used in joint collateral damage estimation process, defined in Combined Joint Chiefs of Staff Instruction 3160.01.  The only approved CDE course in DoD.

    c.  Security Clearance:  Secret

    d.  Duration:  5 days

    e.  Location: Dam Neck, NAS

8.  <u>High Value Individual (HVI) Targeting</u> (course info N/A)

A1012.  <u>Targeting Recommended Non-Resident Course Descriptions</u>

1.  <u>General</u>.  The following section provides a detailed course description of the recommended targeting non-resident courses.

2.  <u>Targeting Process (D3A) - Course</u>

    a.  Course ID:  C0389DDI

    b.  Scope:  The Targeting Process Course focuses on the following the areas:

        (1) The target and the targeting process,

        (2) The functions of various targeting organizations,

        (3) The elements of the D3A targeting methodology and recognize how it is implemented at each level of fire support coordination,

        (4) The four steps in the IPB process,

        (5) The fire support products of the targeting process: high-value targets (HVTs), high-payoff targets (HPTs), named areas of interest (NAIs), and targeted areas of interest (TAIs),

        (6) The fire support tools produced by the targeting process: high-payoff target list (HPTL), target selection standard (TSS) matrix, and attack guidance matrix (AGM) and

        (7) The difference between a target list and a list of targets.

c.  Length:  1 hr


A1013.  Information Operations Recommended Resident Course
Descriptions

    1.  General.  The following section provides a detailed course
description of the recommended information operations resident courses.


    2.  Information Operations Fundamentals Course

        a.  Course ID:  N03L9M1

        b.  Scope:  To provide a fundamental knowledge of the
strategy, concepts, major components, and associated methodologies of
Information Operations (IO) which will enable the student to successfully
integrate IO into the joint expeditionary warfare environment. This course
defines IO strategy; provides classroom instruction concerning IO
concepts, physical destruction, electronic warfare, military deception,
psychological operations, operations security and computer network
operation, along with the various IO methodologies. A performance exercise
will enhance students' ability to apply IO strategy development, targeting
threat C2 (offensive IO), countering of threat C2 attack measures
(defensive IO) and provide friendly C2 protection in various tactical
situations. Guest speakers from national agencies are featured in the
resident course.

        c.  Pre-requisites:  This course is available to all officers
and enlisted personnel of any branch of service involved in the
operational planning of units for employment as expeditionary forces, and
to civilian personnel from DOD, State Department, and Intelligence
Agencies/Organizations, who participate in the planning and/or mission
execution of expeditionary forces. A secret security clearance is required
and must be reflected on the student's orders for attending this course.
International students will be required to step out for portions of the
guest speaker's classes due to classification level of the instruction.

        d.  Course Length:  5

        e.  Service:  Navy

        f.  Special Guidance:  This course is available to all
officers and enlisted personnel of any branch of service involved in the
operational planning of units for employment as expeditionary forces, and
to civilian personnel from DOD, State Department, and Intelligence
Agencies/Organizations, who participate in the planning and/or mission
execution of expeditionary forces. A secret security clearance is
required, and must be reflected on the student's orders for attending this
course. International students will be required to step out for portions

of the guest speaker's classes due to classification level of the instruction. Success in the course requires an appropriate student mix from the categories listed in the prerequisites. Students are placed into working groups with representation from operations, fire support, aviation, communications, EW, and intelligence backgrounds. This composition allows for realistic staffing of the planning cells, as well as enhancing interaction and exchange between the students to further the learning experience. It is necessary to advise EWTGPAC of the attendee's name, rank, SSN, security clearance, and rating/MOS/ designation not later than twenty working days prior to the course. This will allow sufficient time to prepare student material, complete billeting requirements, and reallocate quotas.

g. Security Clearance: Secret

h. Location:  EWTG LANT & MTT

3. <u>Tactical Information Operations Course</u>

a. Course ID:  N/A

b. Scope:  The Tactical Information Operations Course is designed to provide the individual with an understanding of information operations at the tactical level.  It trains information operations, and the integration of information operations into overall military operations.  The student will gain a working knowledge of information operations, core, supporting, and related elements.  It teaches the individual how to integrate information operations into the military decision making process, intelligence preparation of the battlefield, and the targeting processes.  The individual will also learn how to analyze the informational environment, execute information operations in a complex environment, and assess the results.  The student's knowledge will be exercised and validated during a culminating scenario based exercise, involving information operations at the company, battalion, brigade, and division level of operations. The course is ASI/SI producing. In-depth study of Information Operations (IO), including the elements of offensive and defensive IO; integration, coordination, and synchronization responsibilities at the Division and Corps staff levels; OPSEC; deception; Electronic Warfare (EW); Psychological Operations (PSYOP); civil affairs; public affairs; physical destruction; IO targeting; IO intelligence preparation of the battlefield (IPB); developing IO doctrine (FM 3-13); special emphasis is placed on IO planning and planning products within the framework of the Military Decision Making Process (MDMP).

c. Special Guidance:  The Target Audience for the Tactical Information Operations Course is those individuals responsible for the integration, coordination, and synchronization of information operations within their unit or supported force.  It is open to all officers, warrant officer grades, and to staff non-commissioned officers.  It is open to all

Department of Defense agencies, and by arrangement, to other United States Government agencies.

        d.   Security clearance: Secret

        e.   Service:  US Army

        f.   Location:  Ft Sill (US Army), Northrop Grumman MTT

A1014.  Information Operations Recommended Non-Resident Course Descriptions

     1.  General.  The following section provides a detailed course description of the recommended information operations non-resident courses.

     2.  Joint Task Force Fundamentals Course (JTF 101) Module 10: Joint Information Operations N/S

        a.   Course ID:  J3OP-US013-10

        b.   Scope:  The Joint Information Operations module presents the principles of joint information operations (IO) to a joint force commander (JFC) and staff. Topics include information operations doctrine, terms and concepts; IO elements; typical Joint Task Force (JTF) IO organization; IO inputs to comprehensive approach to operations, planning, and assessment; and supporting IO organizations.

        c.   Course Length:  2 hrs

A1015.  Miscellaneous Courses

     1.  ANGLICO indoctrination course (course info not available)

     2.  Infantry Operations Chiefs Course

        a.   Course ID:  CID M03H504

        b.   Scope:  This course is designed to train Marines in the knowledge and skills required to perform as an Operations Chief in a Ground Combat Element Battalion/Regiment, or Marine Expeditionary Unit.  A Marine receives training and education in unit readiness planning, ground combat element operations, combat operations center operations, the Marine Corps Planning Process, and fire support coordination.  Upon successful completion of this course, a Marine is capable of performing as an Operations Chief in a Ground Combat Element Battalion/Regiment, or Marine Expeditionary Unit.

        c.   Pre-requisites:  A Marine must be an active or reserve member of the Marine Corps.  A Marine must be either a Master Sergeant

select, a Master Sergeant, or a Master Gunnery Sergeant. The Marine must possess one of the Combat Arms MOS's.  A Marine must have one year of obligated service remaining upon completion of the course. This service requirement is waiverable to six months at the discretion of the Commanding Officer, Advanced Infantry Training Company.  A Marine must report with TAD orders, their SRB, and a "TD" fitness report from their parent command.  A Marine must be in possession of a completed screening checklist that certifies that the meets Marine Corps height, weight, and body fat standards.  A Marine must not have any personal, legal, or medical issues that would interfere with their ability to successfully complete the course.  A Marine must have attended appropriate level advance MOS school.  A Marine must be in possession of certificates to show proof of completion of the following courses:

        (1) Watch Officer/Watch Chief Course, provided at the command's local MAGTF Integrated Systems Training Center (MISTC), OR the Ground Operations Specialist Course (CID N30RCC1) provided at Expeditionary Warfare Training Group, Pacific (EWTGPAC).

        (2) Fire Support Coordination (FSC) Marine Net interactive course (Course Code:  0801AO) OR the resident Fire Support Coordination Course (CID N03APJ1) at Expeditionary Warfare Training Group, Atlantic/Pacific (EWTGLANT/PAC).

        (3) Marine Corps Planning Process (MCPP) Marine Net interactive course (Course Code:  MCPP01)

    d.   Location: AIT, SOI East/ West

A1015.  Miscellaneous Non-Resident Courses

    1.   Marine Corps Planning Process (MCPP)

        a.   Course ID:  MCPP01

        b.   Scope: This course explains the steps of the Marine Corps planning process and how it supports the commander's decision-making as detailed in MCWP 5-1, Marine Corps Planning Process. The student will learn how to formulate a tactical plan through a practical exercise and illustrate the use of planning tools (e.g., matrices, worksheets, formats, examples), integrate warfighting functions in planning, and produce a task organization and selected elements of an operations order to support a tactical plan.

        c.   Course Length:  12 hrs

    2.   NATO Space Support Course N/S/IP

        a.   Course ID:  J3ST-MN086

b.  Scope:  This lesson discusses in detail the four areas of
Space Support outlined in Allied Joint Publication 3.3 (AJP 3.3):
spacelift operations, satellite operations, space surveillance, and the
space environment

        c.  Course Length:  4

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APPENDIX B
Fire Support Training Tracking

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APPENDIX B
Fire Support Training Tracking


B1000.  General.  This chapter will discuss tracking policies for initial and sustainment training for fire support personnel.  TECOM plan is to use MCTIMS for this purpose.(Currently under development)

Bl001.  Objective. The objective is to provide leaders guidance on the responsibilities associated with the tracking policies for initial and sustainment training of fire support personnel at the appropriate levels.

B1002.  Initial and Sustainment Training

        1.  Initial training is the responsibility of the respective MOS producing schoolhouse.

        2.  Sustainment training is the responsibility of appropriate operational units.

B1003.  Schoolhouse Responsibilities

        1.  Marine Detachment, Ft Sill has developed and maintained a PSS-SOF database identifying currently qualified users and instructors.  The Marine Detachment will work with the appropriate agencies to ensure PSS-SOF products are correct and up to date.

B1004.  Artillery Unit Responsibilities

        1.  Qualified PSS-SOF instructors will provide the Marine Detachment, Ft Sill with names of users they have certified in order to maintain an up to date database.

        2.  Artillery unit(s) are responsible for sustainment training of fire support personnel within their respective commands using the most current T&R standards.

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APPENDIX C
Fire Support Training in Support of OCONUS Contingency Operations (OCO)

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APPENDIX C
Fire Support Training in Support of OCONUS Contingency Operations (OCO)

C1000.  General.  This chapter describes minimum standards for training in support of standard unit deployments.  It addresses key initial and sustainment requirements for fire support personnel from the company to MEF level.  It is complementary to the current version of ref (f).

C1001.  Timeline

1.  D-360:  Personnel manning requirements identified.

2.  D-330:  Fire Support Team personnel identified.

3.  D-300:  Fire Support Team personnel finalized and Stabilization Report submitted to DC, M&RA (MMEA).

4.  D-270:  Fire Support Teams formed for training and stabilized. Block 1 begins (see paragraph C1003 for definition of the Blocks of training).

5.  D-240:  The Regimental Fire Support Coordinator (Artillery Battalion Commander) introduces the Regimental / Battalion Fire Support Team Leader to the supported unit (establish basic frame work for training schedule, work spaces, etc.).

6.  D-210:  Working Group including Fire Support Team Leader, Team Chief and gaining-unit operations and logistics representatives to discuss TAD orders, equipment transfer, support, etc.  Block 1 training complete. Certification of all Fire Support personnel complete.  Block 2 begins.

7.  D-180:  Lock-on.  Transfer Fire Support Team personnel and equipment to supported unit.  Block 2 continues, and Block 3 begins.

8.  D-90 to D-30:  Block 4 conducted.

C1002.  Training Prior To Lock-On.  Covers D-270 to D-180.  When the Fire Support Team is staffed and formed according to the above timeline, much of the below training, specifically the Block 1 items, can be completed in three months to allow time for Block 2 training.  For course that must be completed prior to lock on refer to Appendix A.


C1003.  Training D-180 – D-30

1.  Block 2.  Internal SOP review and validation with supported unit.  Complete additional training identified by supported unit Commander (i.e. BLT/MEU).

2.  Block 3.  COC teamwork development and continued SOP validation.

3.  Block 4.

a.  Mission Rehearsal Exercise (MRX) conducted by MAGTF Staff Training Program (MSTP) for Marine Expeditionary Brigage (MEB), Division, and MEF staffs.

b.  Spartan Resolve (Marine Corps Tactics and Operations Group) for Regimental and Battalion staffs.

c.  Enhance Mojave Viper (EMV) (Tactical Training Exercise Control Group) for Battalion and Company staffs.

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