

Training and Educational



ROADMAP



for

METEOROLOGY AND OCEANOGRAPHY SERVICES

United States Marine Corps Military Occupational Specialties
6821/6842/6802/6877



Contents

| Title | Page | |
|----------------------------------|--|----|
| MOS 68xx Overview | 3 | |
| Training by year/rank/MOS | | |
| 6821 | General MOS 6821 overview | 4 |
| 6821 | 1 st year | 5 |
| 6821 | 2 nd year | 6 |
| 6821 | 3 rd year | 7 |
| 6842 | General MOS 6842 overview | 8 |
| 6842 | Sergeant | 9 |
| 6842 | Staff Sergeant | 10 |
| 6842 | Gunnery Sergeant | 11 |
| 6842 | Master Sergeant | 12 |
| 6842 | Master Gunnery Sergeant | 13 |
| 6802/6877 | General MOS 6802/6877 overview | 14 |
| 6802/6877 | WO to CW05 | 15 |
| 6802/6877 | Capt to LtCol | 16 |
| College Degrees | | |
| AA | Associate in Arts (emphasis meteorology) | 17 |
| BA | Bachelor of Arts (Major: Natural Sciences) | 18 |
| | Recommended ACE credits | 19 |
| Apprenticeship Program | | |
| 0001(M) | Weather Observer | 20 |
| 0940(N) | Meteorologist | 21 |



METOC Services Overview

MOS 68XX Meteorological and Oceanographic (METOC) Services Overview

MISSION: The METOC Services are responsible for providing meteorological, oceanographic and Space Environmental observation, analysis, climatological, and prognostic information in support of Marine Air-Ground Task Force (MAGTF), combined, and joint operations.

Composition: The METOC structure is comprised of four MOS.

Officer:

- 6802 - METOC Officer
- 6877 - METOC Weapons Tactics Instructor (Skill Designator)

Enlisted:

- 6821 - Apprentice METOC Analyst (Observer)
- 6842 - Journeyman/Master METOC Analyst (Forecaster)

MILITARY FORMAL SCHOOL(S):

- Marine Corps Weather Observer School F0268B1
- Meteorological and Oceanographic Analyst Forecaster N61RCB1
- Tropical Weather Analysis and Forecasting F020321
- OPUP Operator/Manager course F02KBK1
- Joint METOC Tactical Application Course N01WBM1/N012WBM2

RELATED DOT CLASSIFICATION/CODE(S):

- Weather Observer 025.267-014
- Weather Clerk 248.362-014

UNITED SERVICES MILITARY APPRENTICESHIP PROGRAM:

- USMC METOC Weather Observer AIMS SYMBOLS 0001M

RECOMMENDED MOS RELATED COLLEGE DEGREE: Personnel can enhance personal and professional knowledge by pursuing college degrees, but degrees are not required for a successful military career. The American Council for Education (ACE) awards college level training credits for certain military courses. ACE accredited courses contained within the roadmap are denoted by the use of an asterisk (*).

- Associates in Arts (emphasis Meteorology)
- Bachelor of Arts - Major Natural Sciences.





6821 APPRENTICE METOC ANALYST Overview

DUTIES: Typical duties of Apprentice METOC Analysts include observing, recording, encoding, decoding, dissemination, and retrieval of METOC data. Apprentice METOC Analysts utilize information technology systems and perform preventive maintenance on METOC computer systems, networks, and equipment. In addition, Apprentice METOC Analysts begin developing forecasting knowledge and skills and aid the Journeyman and Master METOC Analysts (MOS 6842) in preparing forecast and impact assessment products by retrieving, compiling, and disseminated METOC data sets.

SECURITY CLEARANCE REQUIREMENTS:

Top Secret clearance.

MILITARY FORMAL SCHOOL(S):

- Marine Corps Weather Observer School (F0268B1) *

RELATED DOT CLASSIFICATION/CODE(S):

- Weather Observer 025.267-014
- Weather Clerk 248.362-014

UNITED SERVICES MILITARY APPRENTICESHIP PROGRAM (USMAP): Marines are encouraged to enroll in the apprenticeship program upon initial assignment to the Fleet Marine Force.

- Weather Observer AIMS SYMBOLS 0001M

RECOMMENDED MOS RELATED COLLEGE DEGREE:

Apprentice METOC Analysts can enhance personal and professional knowledge by pursuing college degrees, but degrees are not required for a successful military career. Details for each degree listed are contained at the end of the Roadmap. The American Council for Education (ACE) awards college level training credits for certain military courses. ACE accredited courses contained within the roadmap are denoted by the use of an asterisk (*).

- Associates in Arts (emphasis Meteorology)
- Bachelor of Arts - Major Natural Sciences.

6821 METOC Apprentice RoadMap





1ST YEAR

6821 APPRENTICE METOC ANALYST

MOS REQUIRED TRAINING:

- Complete Marine Corps Weather Observer Course (Awarded MOS 6821)*
- Commence METOC T&R Manual Combat capable training stage

MOS ENHANCEMENT TRAINING:

- Not required during initial training phase. (Local training plan)

PROFESSIONAL MILITARY EDUCATION:

- Complete Personal Financial Management MCI 3420E (text), 3425A(CD), 3426A (Web)*
- Complete Fundamentals of Marine Corps Leadership MCI 0033(text), 0034(CD), 0035 (Web)*
- Commence participation in the CMC Professional Reading Program

MILITARY FORMAL SCHOOL(S)

- Complete Marine Corps Recruit Training *
- Complete Marine Combat Training (MCT)
- Test for Military Academic Skills Program (MASP)

RECOMMENDED DUTY LOCATIONS:

- Keesler AFB, Mississippi, (initial training).
- MCAS/MCAF METOC units.

SUPPLEMENTAL/SPECIAL DUTY:

- Recruiters' assistance may be requested after obtaining Apprentice METOC Analyst qualification.

UNITED SERVICES MILITARY APPRENTICESHIP PROGRAM:

- Commence Weather Observer Apprenticeship AIMS SYMBOLS 0001M

RECOMMENDED MOS RELATED COLLEGE DEGREE:

- An Associates degree in Arts (emphasis Meteorology) degree is available to all Marines through a partnership between the Navy Distance Learning Center and Thomas Edison College.
- Other degree programs may be available via NMOPDC discussions).

6821 METOC Apprentice RoadMap





2nd YEAR

6821 APPRENTICE METOC ANALYST

MOS REQUIRED TRAINING:

- Complete T&R Manual combat capable stage of training.
- Commence Combat Ready stage of METOC T&R Manual.
- Complete Aerographer's Mate Module 5, Basic Meteorology (NAVEDTRA 14312)
- Enroll in "Introduction to Forecasting" (METOC 50-1T-0002)
- Enroll in Oceanography Correspondence Course (METOC 60-1T-9601)

MOS ENHANCEMENT TRAINING:

- Complete Aerographer's Mate Module 1, Surface Weather Observations (NAVEDTRA 14269)
- Complete Aerographer's Mate Module 2, Miscellaneous Observations and Codes (NAVEDTRA 14270)
- Complete Aerographer's Mate Module 3, Environmental Satellites and Weather Radar (NAVEDTRA 14271)

PROFESSIONAL MILITARY EDUCATION:

- Complete MCI 2525A (Communications Security)
- Complete MCI 0370A (The Marine Rifleman)
- Participate in CMC Professional Reading Program

MILITARY FORMAL SCHOOL(S):

- None required during this period.

RECOMMENDED DUTY LOCATIONS:

- MCAS/MCAF METOC units.

SUPPLEMENTAL/SPECIAL DUTY:

- None recommended during this phase.

UNITED SERVICES MILITARY APPRENTICESHIP PROGRAM:

- Continue Weather Observer Apprenticeship AIMS SYMBOLS 0001M

RECOMMENDED MOS RELATED COLLEGE DEGREE:

- An Associates in Arts (emphasis Meteorology) degree is available to all Marines through a partnership between the Navy Distance Learning Center and Thomas Edison College.

6821 METOC Apprentice RoadMap





3rd YEAR

6821 APPRENTICE METOC ANALYST

6821 METOC Apprentice RoadMap

MOS REQUIRED TRAINING:

- Complete METOC T&R Manual Combat Ready stage of training.
- Commence METOC T&R Manual Combat Qualified stage.
- Complete "Introduction to Forecasting" (METOC 50-1T-0002)
- Complete Oceanography Correspondence Course (METOC 60-1T-9601)
- Complete METOC T&R Manual Combat Qualified stage.
- Commence METOC T&R Manual Full Combat Qualified stage
- Complete METOC T&R Manual Forecast Support Qualification
- Complete 6 month Journeyman mentorship training (OJT)
- Complete METOC T&R Manual Full Combat Qualified stage
- Fully qualify to attend the Meteorological and Oceanographic Analyst/Forecaster Course. (N61RCB1).

MOS ENHANCEMENT TRAINING:

- Complete "Basic Surface Chart Analysis" (METOC 50-1T-0301)
- Complete "The Use of the Skew-T Log P Diagram in analysis and Forecasting" (AWS/TR-79/006)
- Complete "Introduction to Electro-Optics" (METOC 50-1T-0303)

PROFESSIONAL MILITARY EDUCATION:

- Complete MCI 0210B (Terrorism Awareness for Marines)
- Participate in CMC Professional Reading Program

MILITARY FORMAL SCHOOL(S):

- Resident Corporal's Course. *

RECOMMENDED DUTY LOCATIONS:

- MCAS/MCAF METOC units.
- MWSS METOC units.
- MST units.

SUPPLEMENTAL/SPECIAL DUTY:

- Not recommended during this phase.

UNITED SERVICES MILITARY APPRENTICESHIP PROGRAM:

- Complete Weather Observer Apprenticeship AIMS SYMBOLS 0001M

RECOMMENDED MOS RELATED COLLEGE DEGREE:

- An Associates in Arts (emphasis Meteorology) degree is available to all Marines through a partnership between the Navy Distance Learning Center and Thomas Edison College.





6842 JOURNEYMAN/MASTER METOC ANALYST Overview

DUTIES: Typical duties of Journeyman/Master METOC Analysts include developing meteorological and oceanographic forecasts. The forecasts are derived through application of atmospheric dynamics and physics theories and principles. Once forecasts are formulated, Journeyman and Master METOC Analysts must assess the impacts to operations based on METOC parameters. Journeyman and Master METOC Analysts are the primary trainers and mentors for Apprentice METOC Analysts.

SECURITY CLEARANCE REQUIREMENTS:

Top Secret Clearance with SCI eligibility

MILITARY FORMAL SCHOOL(S):

- Meteorological and Oceanographic Analyst Forecaster (MOAF) N61RCB1

RELATED DOT CLASSIFICATION/CODE(S):

- Weather Observer 025.267-014
- Weather Clerk 248.362-014
- Meteorologist 025.062-010
- Oceanographer, Assistant 025.267-010
- Oceanographer 024.061-030

UNITED SERVICES MILITARY APPRENTICESHIP PROGRAM (USMAP):

- Weather Observer AIMS SYMBOLS 0001M
- Meteorologist AIMS SYMBOLS 0940N

RECOMMENDED MOS RELATED COLLEGE DEGREE:

Journeyman and Master METOC Analysts should continue to pursue the Associates in Art degree. Those who have completed the Associates degree can further their college education by enrolling in the Bachelor of Arts degree program. Degrees are not required for a successful military career. Details for each degree listed are contain in enclosure (1). (There are no enclosures) The American Council for Education (ACE) awards college level training credits for certain military courses. ACE accredited courses contained within the roadmap are denoted by the use of an asterisk (*).

- Associates in Arts (emphasis Meteorology)
- Bachelor of Arts - Major Natural Sciences.

6842 METOC Journeyman RoadMap





Sergeant

6842 JOURNEYMAN METOC ANALYST

6842 METOC Journeyman RoadMap

MOS REQUIRED TRAINING:

- Commence METOC T&R Manual Combat Capable training stage (CH-2).
- Complete METOC T&R Manual Journeyman METOC Analyst qualification.
- Complete Combat Capable stage of the METOC T&R Manual (CH-2)
- Commence METOC T&R Manual Combat Ready training stage (CH-2).
- Read MCWP 3-35.7 (MAGTF METOC Support).
- Attend Local Security Training (CMCC and CMS).

MOS ENHANCEMENT TRAINING:

- Complete Aerographer's Mate 1& Chief (NAVEDTRA 14010).
- METOC COMET Modules (CD ROM or web) (which ones?)
- Complete "Tropical Synoptic Models" (METOC 50-1T-0304).
- Complete "Tropical Streamline Analysis" (METOC 50-1T-9607).
- Complete "A Workbook on Tropical Clouds and Cloud Systems Observed in Satellite Imagery" Volumes 1 and 2 (METOC 50-1T-9610).
- Attend Basic Satellite Course (MTT from NMOPDC).

PROFESSIONAL MILITARY EDUCATION:

- Complete counseling for Marines (MCI 0112B)
- Complete Sergeant's Distance Education Program (MCI 8010) *
- Complete Correspondence Procedures (MCI 0131H)
- Enroll in SNCO Career Distance Education Program (MCI 7100) *
- Participate in CMC Professional Reading Program

MILITARY FORMAL SCHOOL(S):

- Resident Sergeant's Course. *
- Meteorological and Oceanographic Analyst/Forecaster Course (N61RCB1). *
- Tropical Weather Analysis and Forecasting Course (F020321).

RECOMMENDED DUTY LOCATIONS:

- MCAS/MCAF METOC Units.

SUPPLEMENTAL/SPECIAL DUTY:

- Not recommended during this phase.

UNITED SERVICES MILITARY APPRENTICESHIP PROGRAM:

- Complete Weather Observer Apprenticeship AIMS SYMBOLS 0001M
- Commence Meteorologist Apprenticeship AIMS SYMBOLS 0940N

RECOMMENDED MOS RELATED COLLEGE DEGREE:

- An Associates in Arts (emphasis Meteorology) degree is available to all Marines through a partnership between the Navy Distance Learning Center and Thomas Edison College.
- A Bachelor of Arts degree majoring in Natural Sciences is available to all Marines through a partnership between the Navy Distance Learning Center and Thomas Edison College.





Gunnery Sergeant

6842 JOURNEYMAN/MASTER METOC ANALYST

6842 METOC Journeyman RoadMap

MOS REQUIRED TRAINING:

- Complete METOC T&R Manual Combat Qualified training stage (CH-2)
- Commence METOC T&R Manual Full Combat Qualified training stage (CH-2)
- Complete METOC T&R Manual METOC Instructor stage (CH-2).
- Complete METOC T&R Manual METOC Analyst Instructor (MAI) Qualification stage (CH-2).

MOS ENHANCEMENT TRAINING:

- Attend Advanced Satellite Course (MTT from NMOPDC).
- METOC COMET Modules (CD ROM or Web)

PROFESSIONAL MILITARY EDUCATION:

- Enroll in and complete SNCO Advanced Distance Education Program (MCI 8200). *
- Enroll in and complete Warfighting Skills Program (MCI 7400). *
- Complete Introduction to Combat Intelligence (MCI 028B).
-
- Participate in CMC Professional Reading Program.

MILITARY FORMAL SCHOOL(S):

- Attend Resident SNCO Advanced Course. *
- Complete Master Training Specialist (MTS) program (Instructor Duty)

RECOMMENDED DUTY LOCATIONS:

- MCAS/MCAF METOC units
- MWSS units
- MST units
- MARDET KEESLER
- MEF METOC Unit (G-2 or Intel Bn)
- CBIRF Unit

SUPPLEMENTAL/SPECIAL DUTY:

- Apply for Warrant Officer Program, if desired.
- "B" Billet based on manpower strengths of occupational field. *
- SNCO Degree Completion Program

UNITED SERVICES MILITARY APPRENTICESHIP PROGRAM:

- Continue Meteorologist Apprenticeship AIMS SYMBOLS 0940N

RECOMMENDED MOS RELATED COLLEGE DEGREE:

- An Associates in Arts (emphasis Meteorology) degree is available to all Marines through a partnership between the Navy Distance Learning Center and Thomas Edison College.
- A Bachelor of Arts degree majoring in Natural Sciences is available to all Marines through a partnership between the Navy Distance Learning Center and Thomas Edison College.





Master Sergeant

6842 MASTER METOC ANALYST

MOS REQUIRED TRAINING:

- Complete METOC T&R Manual Full Combat Qualified training stage (CH-2).
- Complete METOC T&R Manual Master METOC Analyst qualification training.

MOS ENHANCEMENT TRAINING:

- Attend Joint METOC Officer Course (Norfolk or San Diego)
- Attend GCCS Basic Administrator Course (F02L321).
Attend GCCS/UNIX Course (F02RAA1).

PROFESSIONAL MILITARY EDUCATION:

- Attend 1stSgt/MSgt Regional Seminar.
- Enroll in Amphibious Warfare School Distance Education Program (MCI 8510, 8600). (Not mandatory) *
- Participate in CMC Professional Reading Program.

MILITARY FORMAL SCHOOL(S):

- Attend METOC Chief's Course.

RECOMMENDED DUTY LOCATIONS:

- MCAS/MCAF METOC units
- MWSS units
- MARDET KEESLER
- MEF METOC Unit (GySgt billet)

SUPPLEMENTAL/SPECIAL DUTY:

- Apply for Warrant Officer Program, if desired..
- SNCO Degree Completion Program

UNITED SERVICES MILITARY APPRENTICESHIP PROGRAM:

- Complete Meteorologist Apprenticeship AIMS SYMBOLS 0940N

RECOMMENDED MOS RELATED COLLEGE DEGREE:

- An Associates in Arts (emphasis Meteorology) degree is available to all Marines through a partnership between the Navy Distance Learning Center and Thomas Edison College.
- A Bachelor of Arts degree majoring in Natural Sciences is available to all Marines through a partnership between the Navy Distance Learning Center and Thomas Edison College.

6842 METOC Master RoadMap





6802/6877 METOC OFFICERS Overview

DUTIES: Warrant Officers manage and coordinate the activities of personnel engaged in the collection, evaluation, interpretation and dissemination of METOC observations and forecasts and the installation, administration, operation, and maintenance of METOC equipment. Additionally, Warrant Officers provide METOC forecasts and conduct climatological studies of METOC phenomena impacting garrison and tactical operations. Warrant Officers ensure compliance with existing regulations governing the operations of METOC Service activities to include advising the Commander of destructive METOC conditions which would adversely affect operations and coordinate with other service component METOC officers in formulating concepts of METOC operations that support Joint Force, Combined and MAGTF operations. Weapons and Tactics Instructors (MOS 6877) train METOC personnel on the impacts on aviation and ground equipment/weapons systems in a total threat environment. This MOS is assigned only as a skill-designator MOS to qualified METOC officers and qualifies CWOs for the Limited Duty Officer (LDO) program.

SECURITY CLEARANCE REQUIREMENTS:

Top Secret Clearance with SCI eligibility

MILITARY FORMAL SCHOOL(S)

- The Basic School *

RELATED DOT CLASSIFICATION/CODE(S):

- Meteorologist 025.062-010
- Oceanographer 024.061-030

UNITED SERVICES MILITARY APPRENTICESHIP PROGRAM:

- Meteorologist AIMS SYMBOLS 0940N

RECOMMENDED MOS RELATED COLLEGE DEGREE: METOC Officers must possess a Baccalaureate Degree in Meteorology or have completed the Meteorological and Oceanographic Analyst/Forecaster Course and have served in MOS 6842. The American Council for Education (ACE) awards college level training credits for certain military courses. ACE accredited courses contained within the roadmap are denoted by the use of an asterisk (*).

- Bachelor of Arts - Major Natural Sciences.

6802/6877 METOC Officer RoadMap





Warrant Officer – Chief Warrant Officer 5 6802/6877 METOC Officer

6802/6877 METOC Officer RoadMap

MOS REQUIRED TRAINING:

- Complete METOC T&R Manual Master METOC Analyst Qualification training (Ch-2).
- Commence and complete METOC T&R Manual METOC Officer Combat Ready, Combat Qualified and Full Combat Qualified training stages (Ch-3).
- Attend Tropical Weather Analysis and Forecasting Course (F020321).
- Attend WSR-88D OPUP Operator/Manager Course (F02KBK1).
- Attend Joint METOC Tactical Applications Course (N02WBM1 - Norfolk, N01WBM2 - San Diego, or MTT)

MOS ENHANCEMENT TRAINING:

- METOC COMET Modules (CD ROM or web) (which modules?)
- Attend MEU Command and Staff Trainer.
- Attend MAGTF Staff Training Program (MEF, MEB level).
- Attend OA Team Trainer (Norfolk or San Diego).
- Attend Joint METOC Officer Course (Norfolk or San Diego).
- Attend Advanced Satellite Course (MTT from NMOPDC).
- Read JFSC Publication 1 (The Joint Staff Officer's Guide).
- Read Joint Pub 3-59 (Joint Doctrine, Tactics, Techniques and Procedures for METOC Operations), The Joint METOC Handbook (JFCOM) and MCWP 3-35.7, (MAGTF METOC Support).
- Attend GCCS Basic Administrator Course (F02L321).
- Attend GCCS/UNIX Course (F02RAA1)

PROFESSIONAL MILITARY EDUCATION:

- Enroll in and complete Warfighting Skills Program (MCI 7400) (WO/CWO2). *
- Complete Introduction to Combat Intelligence (MCI 028B).
- Enroll in and complete Amphibious Warfare School Distance Education Program (MCI 8510, 8600), (CWO3, CWO4). *
- Enroll in and complete Command and Staff College Distance Education Program (MCI 8800), (CWO4, CWO5). *
- Participate in CMC Commandant's Reading Program

MILITARY FORMAL SCHOOL(S):

- Attend The Basic School (TBS). *
- Attend Weapons and Tactics Instructor (WTI) Course (METOC). (Awarded 6877 MOS)

RECOMMENDED DUTY LOCATIONS:

- MCAS/MCAFMETOC Units
- MWSG Units (MWSS, MST)
- MARDET KEESLER
- MCSOC Det

SUPPLEMENTAL/SPECIAL DUTY:

- Apply for Limited Duty Officer (LDO) Program, if desired.
- Apply for Officer Degree Completion Program.

UNITED SERVICES MILITARY APPRENTICESHIP PROGRAM:

- Complete Meteorologist Apprenticeship AIMS SYMBOLS 0940N

RECOMMENDED MOS RELATED COLLEGE DEGREE:

- A Bachelor of Arts degree majoring in Natural Sciences is available to all Marines through a partnership between the Navy Distance Learning Center and Thomas Edison College.





Captain - Lieutenant Colonel 6802/6877 METOC Officer

6802/6877 METOC Officer RoadMap

MOS REQUIRED TRAINING:

- Complete T&R Manual METOC Officer Combat Ready, Combat Qualified, Full Combat Qualified and Instructor Training stages (CH-3)
- Attend Tropical Weather Analysis and Forecasting Course (F020321).
- Attend WSR-88D OPUP Operator/Manager Course (F02KBK1).
- Attend Joint METOC Tactical Applications Course (N02WBM1 - Norfolk, N01WBM2 - San Diego, or MTT)

MOS ENHANCEMENT TRAINING:

- METOC COMET Modules (CD ROM or web)
- Attend MEU Command and Staff Trainer.
- Attend MAGTF Staff Training Program (MEF, MEB level).
- Attend OA Team Trainer (Norfolk or San Diego).
- Attend Joint METOC Officer Course (Norfolk or San Diego).
- Attend Advanced Satellite Course (MTT from NMOPDC).
- Read JFSC Publication 1 (The Joint Staff Officer's Guide).
- Read Joint Pub 3-59 (Joint Doctrine, Tactics, Techniques and Procedures for METOC Operations), The Joint METOC Handbook (JFCOM) and MCWP 3-35.7, (MAGTF METOC Support).
- Attend GCCS Basic Administrator Course (F02L321).
- Attend GCCS/UNIX Course (F02RAA1)

PROFESSIONAL MILITARY EDUCATION:

- Complete Introduction to Combat Intelligence (MCI 028B).
- Complete Amphibious Warfare School Distance Education Program (MCI 8510, 8600), (CAPT). *
- Enroll in and complete Command and Staff College Distance Education Program (MCI 8800), (MAJ, LTCOL). *
- Participate in CMC Professional Reading Program

MILITARY FORMAL SCHOOL(S):

- Attend The Basic School (TBS).
- Attend Weapons and Tactics Instructor (WTI) Course (METOC). (Awarded 6877 MOS)

RECOMMENDED DUTY LOCATIONS:

- MEF METOC Units
- METOC staff billets (OPNAV N096, CNMOC, HQMC ASL, SPAWARS, MAWTS-1)
- COMCABEAST/COMCABWEST staff
- MARFOR Staff METOC Officer

SUPPLEMENTAL/SPECIAL DUTY:

Apply for Officer Degree Completion Program

UNITED SERVICES MILITARY APPRENTICESHIP PROGRAM :

- Complete Meteorologist Apprenticeship AIMS SYMBOLS 0940N

RECOMMENDED MOS RELATED COLLEGE DEGREE :

- A Bachelor of Arts degree majoring in Natural Sciences is available to all Marines through a partnership between the Navy Distance Learning Center and Thomas Edison College.



Meteorological and Oceanographic Degrees

The following degrees are available through the Navy College Program Distance Learning Partnership with Thomas Edison State College. The Community College of the Air Force also provides a 2-Year degree in Meteorology Technology and provides a CCAF transcript for consolidated military METOC training courses..

Navy College Partnership » AA

| | | |
|---|--|---|
| School: Thomas Edison State College | e-mail: admissions@tesc.edu | Graduation Requirements 6 credit hrs. must be completed at Thomas Edison State College. Maintain a GPA of 2.0. |
| Degree: Associate in Arts | Phone: (888) 442-8372 | |
| Major: | Fax: (609) 984-8447 | |
| Emphasis: Meteorology | Rating: AG Aerographer's Mate | Tuition: \$145/ credit hour |

| WHAT IS REQUIRED? Degree Requirements | | WHAT YOU HAVE Credit awarded by: Thomas Edison State College | | | | | | | |
|---|-----------------------|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| CURRICULUM DEGREE REQUIREMENTS | Credit Hours Required | | E3 | E4 | E5 | E6 | E7 | E8 | E9 |
| GENERAL EDUCATION REQUIREMENTS | 33 | ACE RECOMMENDED CREDIT | | | | | | | |
| English Composition | 6 | Total ACE recommended hours | 14 | 21 | 29 | 54 | 56 | 59 | 68 |
| Humanities | 12 | | | | | | | | |
| Social Science | 12 | | | | | | | | |
| Mathematics Requirement | 3 | | | | | | | | |
| MAJOR AREA OF STUDY (Meteorology) | 21 | | | | | | | | |
| FREE ELECTIVES (Courses of your choice) Excess Military Credits may be applied to Free Electives | 6 | | | | | | | | |
| TOTAL REQUIRED HOURS | 60 | TOTAL HOURS APPLIED TO DEGREE | 21 | 24 | 27 | 27 | 27 | 27 | 27 |

Contact your local Navy College Office, www.navycollege.navy.mil or Thomas Edison State College, admissions@tesc.edu for Educational Advising.

What You Need

Disclaimer for Navy Degree Roadmaps

Please be aware that this is a sample and a Sailor's actual credit award may vary depending on the ACE recommendation in effect at the time of their training. A Sailor's individual credit award will be completed at the time of application to the College.

Effective Date: January 1, 2002

Navy College Program Distance Learning Partnership (NCPDLP) » BA: Natural Sciences

| | | |
|---|--|--|
| School: Thomas Edison State College | e-mail: admissions@tesc.edu | Graduation Requirements 12 credit hrs. must be completed at Thomas Edison State College. Maintain a GPA of 2.0. |
| Degree: Bachelor of Arts | Phone: (888) 442-8372 | |
| Major: Natural Sciences | Fax: (609) 984-8447 | |
| Emphasis: | Rating: AG Aerographer's Mate | Tuition: \$145/ credit hour |

| WHAT IS REQUIRED? Degree Requirements | | WHAT YOU HAVE Credit awarded by: Thomas Edison State College | | | | | | | |
|---|-----------------------|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| CURRICULUM DEGREE REQUIREMENTS | Credit Hours Required | | | | | | | | |
| | | E3 | E4 | E5 | E6 | E7 | E8 | E9 | |
| GENERAL EDUCATION REQUIREMENTS | 60 | ACE RECOMMENDED CREDIT | | | | | | | |
| English Composition | 6 | Total ACE recommended hours | 14 | 21 | 29 | 54 | 56 | 59 | 68 |
| Humanities | 12 | | | | | | | | |
| Social Science | 12 | | | | | | | | |
| Mathematics Requirement | 3 | | | | | | | | |
| Natural Science/Math | 9 | | | | | | | | |
| General Ed Electives | 18 | | | | | | | | |
| MAJOR AREA OF STUDY Natural Sciences | 33 | | | | | | | | |
| FREE ELECTIVES (Courses of your choice) Excess Military Credits may be applied to Free Electives | 27 | | | | | | | | |
| TOTAL REQUIRED HOURS | 120 | TOTAL HOURS APPLIED TO DEGREE | 14 | 26 | 33 | 69 | 69 | 69 | 69 |

Contact your local Navy College Office, www.navycollege.navy.mil or Thomas Edison State College, admissions@tesc.edu for Educational Advising.

What You Need

Disclaimer for Navy Degree Roadmaps

Please be aware that this is a sample and a Sailor's actual credit award may vary depending on the ACE recommendation in effect at the time of their training. A Sailor's individual credit award will be completed at the time of application to the College.

Effective Date: January 1, 2002

Recommended ACE Accreditations

It is at the discretion of the College/University to recognize course accreditation during the application process for a degree.

Professional Military Courses :

| Course Title | ID | ACE ID | Credits | Level |
|-------------------------------------|------------|--------------|---------|--------|
| Recruit Training | 808 | MC-2204-0038 | 8 | Lower |
| MCI Personal Finance | 3420E | MC-1401-0009 | 1 | Lower |
| MCI Fundamentals of USMC Leadership | 033N | MC-1406-0023 | 1 | Lower |
| Corporal's Course (Resident) | L9K | MC-1405-0051 | 4 | Lower |
| Sergeant's Course (Resident) | T4M | MC-2204-0143 | 7 | Lower |
| MCI Sergeants Distance Education | 8010 | MC-2204-0127 | 7 | Lower |
| SNCO Career Course (Resident) | T8A | MC-2204-0140 | 7 | Lower |
| SNCO Career Distance Education | 7100 | MC-2204-0139 | 4 | Lower |
| SNCO Advanced Course (Resident) | T8H | MC-2204-0076 | 9 | Lower |
| SNCO Advanced Distance Education | 8200 | MC-2204-0142 | 3 | Lower |
| MCI Warfighting Skills Program | 7400 | MC-2204-0112 | 2 | Lower |
| Drill Instructor School | 81E | MC-1406-0036 | 8 | Lower |
| Recruiter School | 81C | MC-0327-0001 | 5 | Lower |
| Marine Security Guard School | 81H | MC-1728-0006 | 4 | Lower |
| Classroom Instructor (MOS) School | A-012-0077 | NV-1406-0044 | 3/3 | Low/Up |

MOS Training :

Course Title

Marine Corps Weather Observer Course

| | | |
|----------------------|---|-------|
| Weather Observations | 4 | Lower |
| Basic Meteorology | 6 | Lower |
| General Oceanography | 2 | Lower |

Aerographer's Mate Advanced for USMC

| | | |
|-----------------------|---|-------|
| Climatology | 3 | Lower |
| Warfare operations | 3 | Lower |
| Weather Forecasting | 4 | Lower |
| Aviation Weather | 3 | Lower |
| Atmospheric Physics | 2 | Upper |
| Marine Acoustics | 2 | Upper |
| Computer Applications | 2 | Upper |

WEATHER OBSERVER

DOT CODE: 025.267-014

AIMS SYMBOL: 0001(M)

Demonstrate knowledge and skills for qualifying as Journeyman. Applicable Job Qualification Requirements will be used as a guide in performing tasks and demonstrating knowledge in the following areas. Actual work time must be recorded in the Work Experience Log.

SKILL AREA HOURS

| | |
|--|--------------|
| A. EQUIPMENT..... | 1,000 |
| Operate meteorological equipment to obtain environmental data; to include, but not limited to: automatic weather station, hand held anometer, aneroid barometer, electric psychrometer, barograph, psychrometric calculator, sling psychrometer, 4 inch rain gauge, transmissometer, cloud height set and wind recorder. Operate communications equipment to receive and disseminate environmental data; to include but not limited to: radio receivers and transmitters (and related components), facsimile recorder, COMEDS, teletypewriters, telephone answering systems, and closed-circuit television systems. Perform operator's preventive maintenance and routine checks on all meteorological and communications equipment. Operate computers to obtain operational data; to include, but not limited to: pilot balloon observations, basic skew-T analysis, OPARS, SAR, surf and surge forecasts, sound focus forecasts, RADFO data, astronomical/climatological data and word processing. | |
| B. DECODE/ENCODE AND PLOT ENVIRONMENTAL DATA..... | 420 |
| Airways. Land/ship synoptic. Skew-T Log P Diagram (and partially analyze) Constant pressure charts. Sea, swell and combined sea heights. Sea surface temps. Environmental warnings. Radar reports. Plot data from fallout warning messages. | |
| C. ADMINISTRATION..... | 450 |
| Maintain directives, publications and climatological records. Supply responsibility/accountability. Compute astronomical/tidal data. | |
| D. SECURITY..... | 150 |
| Understand principles of a security program to include: classification, access, safeguarding, destruction and compromise of classified material. | |
| E. SURFACE OBSERVATIONS | 1,000 |
| Observes and records: weather conditions, state of the sky, visibility, wind, temperature and pressure elements. Prepare environmental data for longline and local dissemination. | |
| F. Upper Air Soundings | 80 |
| Collect and compute upper air wind direction and speed using Pilot Balloons and related equipment. | |
| G. ENVIRONMENTAL DATA DISPLAY..... | 500 |
| File and display teletype and facsimile using applicable MANOP headings. Identify and properly color features and history on facsimile products. | |
| H. RADAR | 100 |
| Safety. Basic start-up/shut-down procedures. | |
| I. METEOROLOGICAL SATELLITES | 200 |
| Safety. Operate equipment to receive meteorological satellite imagery. | |
| J. PILOT TO FORECASTER RADIO (METRO)..... | 100 |
| Safety. Operate equipment. | |

Total Hours 4,000

Applicable Marine MOS: 6821 - WEATHER OBSERVER

Applicable Military School(s): Any trade related school(s) totaling 288 or more hours of classroom instruction.

METEOROLOGIST

(Professional & Kindred)

DOT CODE : 025.062-010

AIMS SYMBOL: 0940N

Collect, record and analyze weather and oceanographic information. Prepare up-to-date weather maps and oceanographic data. Issue weather forecasts and warnings; conduct weather/oceanographic briefings. Use, test, calibrate and perform minor and preventive maintenance on meteorological instruments including satellite receivers. Prepare balloon-carried instruments for flight. Evaluate and analyze data received. Operate, program and maintain computers and related equipment.

Skill Area Hours

A. AVIATION PLOTTING, OBSERVING, AND FORECASTING..... 2,000

Write terminal forecasts; write area synopses and route forecasts for weather broadcasts; plot and analyze weather maps and charts; verify forecasts; brief pilots; assist in map discussions.

B. PLOTTING, OBSERVING, AND FORECASTING 2,000

Plot synoptic surface charts; plot surface charts using aviation observations; plot constant pressure charts; plot Skew T, Log P diagrams, plot data from fallout warning messages; plot data from environmental warnings and advisories; determine tracking data from meteorological satellite pictures; plot upper air radiosonde observations; apply meteorological fundamentals of primary, secondary, and tertiary circulations of the earth's atmosphere and of types of weather associated with air masses, frontal systems, cyclonic and anticyclonic systems in drawing weather charts; compute fallout winds and construct radiological fallout plots from upper wind data; draw synoptic surface charts showing frontal systems; isobars, isallobars, and pressure centers; draw constant pressure charts showing isohypses, isotherms, troughs, ridges, and height centers.

C. COMMUNICATIONS AND COMMUNICATIONS EQUIPMENT..... 500

Operate radio receivers, facsimile, teletype equipment, minicomputers, telephone answering, systems, videotape cameras and playback units, electronic data terminals. Identify, encode, and decode meteorological data. Use the following communications systems; FAA teletype network, National Warning System (NWS), Emergency Broadcast System (EBS).

D. OTHER EQUIPMENT..... 500

Perform routine checks and operator's preventive maintenance for onboard meteorological equipment and instruments; prepare and maintain preventive maintenance schedules; use temperature-measuring equipment, wind-measuring equipment, cloud-measuring equipment, precipitation-measuring equipment.

E. ADMINISTRATION..... 400

Maintain directives, publications, and climatological records. Prepare weather summaries and news releases. Give oral weather briefings. Carry out disposal of environmental charts and records.

F. MISCELLANEOUS..... 600

Prepare and issue forecasts (warnings, watches, and advisories). Compute astronomical and tidal data. Interpret oceanographic charts. Identify physical properties of sea water. Identify major oceanographic parameters (sea surface temperature, layer depth, and temperature gradients). Identify major current systems and water masses of the ocean.

TOTAL 6,000

Applicable Rating/MOS: Aerographer's Mate (AG)

6842 METOC Forecaster

Marine Science Technician (MST)

Applicable Related Instruction: Aerographer's Mate or Marine Science Technician "A" School, METOC Forecaster Course or trade related schools/courses totaling 432 hours.