



## CTT CAREER PATH (IW/SW/AW/SG/NAC/EXW)



Cryptologic Technician Technical (CTT). CTTs perform a variety of technically-intensive duties, both afloat and ashore, associated with processing and interpreting RADAR emissions for tactical and strategic value. They operate Electronic Intelligence (ELINT)/Electronic Support (ES) receiving/processing systems and peripheral equipment to provide threat assessments, situational awareness and Indications and Warnings (I&W) in addition to formulating Electronic Attack (EA) techniques and tactics. Additionally, CTTs record and analyze RADAR data to develop and maintain RADAR libraries for strategic analysis and development of deception techniques. They operate and maintain ES and EA systems permanently installed on ships. CTTs perform their duties on ships, submarines, aircraft, patrol craft and at shore commands in the U.S. and overseas. CTTs also augment U.S. Special Operations Forces and Expeditionary Warfare forces abroad.

YEARS OF SERVICE	CAREER MILESTONES	AVERAGE TIME TO ADVANCE	COMMISSIONING OR OTHER SPECIAL PROGRAMS	SEA/ SHORE FLOW	TYPICAL CAREER PATH DEVELOPMENT
26-30	CTTCM	21.3 Yrs	CSEL	36	Sea or Shore Tour Billet: Staff Duty, ECM, CSEL Duty: OPNAV, BUPERS, FFC, CPF, CNSWC, PEO, TYCOM, NIWDC, CIWT/IWTC, NIOC, Numbered Fleet. NEC C05A, 831A
23-26	CTTCM CTTCS	21.3 Yrs 16.4	CSEL, CWO	36	Sea or Shore Tour Billet: Dept LCPO, Staff Duty, CSEL, ECM, Senior Detailer Duty: OPNAV, BUPERS, FFC, CPF, CNSWC, PEO, TYCOM, NIWDC, CIWT/IWTC, NIOC, Numbered Fleet, Aircrew. NEC C05A, 831A
20-23	CTTCM CTTCS CTTC	21.3 Yrs 16.4 12.4	CSEL, CWO	36	5 <sup>th</sup> Sea Tour/4 <sup>th</sup> Shore Tour Billet: Dept LCPO, LCPO Afloat, Staff Duty, Detailer, SAC Supervisor Duty: Ship, Submarine, Aircrew, NIOC, NIWTG, CIWT/IWTC, ATG, RTC, NSW, NPC, CPF, Numbered Fleet, RMC, Navy Region Qualification: Senior Enlisted Academy, IWWO, CICWO (CVN), DESRON Staff TAO, Shipboard SUWC, AAWC. NEC C05A, 831A
16-20	CTTCS CTTC CTT1	16.4 Yrs 12.4 6.8	LDO, CWO, OCS, MECP, CSEL	36	4 <sup>th</sup> Sea Tour/3 <sup>rd</sup> Shore Tour Billet: Dept LCPO, LCPO Afloat, Staff Duty, Detailer, SAC Supervisor Duty: Ship, Submarine, Aircrew, NIOC, NIWTG, CIWT/IWTC, ATG, RTC, NSW, NPC, CPF, Numbered Fleet, Navy Region, RMC Qualification: Senior Enlisted Academy, IWWO, CICWO (CVN), DESRON Staff TAO, Shipboard SUWC, AAWC. NEC C05A



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<b>YEARS OF SERVICE</b>	<b>CAREER MILESTONES</b>	<b>AVERAGE TIME TO ADVANCE</b>	<b>COMMISSIONING OR OTHER SPECIAL PROGRAMS</b>	<b>SEA/ SHORE FLOW</b>	<b>TYPICAL CAREER PATH DEVELOPMENT</b>
12-16	CTTCS CTTC CTT1	16.8 Yrs 12.6 6.8	LDO, CWO, OCS, MECP, CSEL	36	2 <sup>nd</sup> Shore Tour/3 <sup>rd</sup> Sea Tour Billet: LCPO Afloat or Ashore, Department LCPO, Afloat Staff, Instructor, DIRSUP Supervisor, TIO Analyst or Operator, Detailer, CUAS Monitor/Supervisor, Sensor Assessment Cell (SAC) Supervisor Duty: Ship, Submarine, Aircrew, NIOC, NIWTG, ATG, RTC, NRD, CIWT/IWTC, NSW, NPC, Naval Station, Navy Region, RMC Qualification: Warfare Qualifications, MTS, IWWO, CICWO (CVN), DESRON Staff TAO, Shipboard SUWC, AAWC. NEC C05A
8-12	CTTC CTT1 CTT2	12.6 Yrs 6.8 2.7	LDO, CWO, OCS, MECP, CSEL	36	2 <sup>nd</sup> Sea Tour/2 <sup>nd</sup> Shore Tour Billet: LPO afloat, LCPO Afloat, Afloat Staff, Instructor, DIRSUP Operator and/or Supervisor, TIO Operator/Analyst. National Systems, TECHELINT, CUAS Monitor/Supervisor Duty: Ship, Submarine, Aircrew, NIOC, NIWTG, ATG, RTC, NRD, CIWT/IWTC, NSW, Naval Station, Regional Maintenance Centers (RMC) Qualifications: IWWO, DESRON Staff TAO, ASST IWWO, EW Supervisor, Air Warfare Coordinator, Ship's Weapons Coordinator, MTS, Warfare qualifications. NEC's C17A, C07A, C05A, C06A, C06B, C34A, C36A



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YEARS OF SERVICE	CAREER MILESTONES	AVERAGE TIME TO ADVANCE	COMMISSIONING OR OTHER SPECIAL PROGRAMS	SEA/ SHORE FLOW	TYPICAL CAREER PATH DEVELOPMENT
4-8	CTT1 CTT2 CTT3	6.8 Yrs 2.6 1.3	STA-21, OCS, MECP MESAP (NEC C22A) and MOSAP (NEC C09A) internships	36	1 <sup>st</sup> Shore Tour/2 <sup>nd</sup> Sea Tour Billet: EW Systems operator and/or maintainer. EW Journeyman, EW Supervisor. DIRSUP submarines operator and/or supervisor. National Systems Operator, TECHELINT Analyst. TIO Operator/Analyst, Counter Unmanned Aerial Systems (CUAS) Monitor Duty: Ship, Submarine, Aircrew, NIOC, NIWTG, ATG, CIWT/IWTC, NSW, Naval Station Qualification: EW Operator, EW Supervisor, National Systems Analyst/Supervisor, Warfare Qualifications. ASST IWWO, NEC's C07A, C17A, 854A/837A, C01A, C00A, C02A, , C04A, C06A, C06B, C15A, C34A, C36A
1-4	CTT2 CTT3	2.6 Yrs 1.3	STA-21, Naval Academy, NROTC, OCS	Operator– 42 Maintainer-48	1 <sup>st</sup> Sea Tour Billet: Fleet EW Systems Operator and/or Maintainer, DIRSUP submarines operator, Aircrew, ELINT analyst Duty: Ship, NIOC, Submarine, Aircrew Qualification: EW Operator, EW Supervisor, Submarine Systems operator, Aircrew, National Systems Analyst, Warfare Qualifications. ASST IWWO, NEC C15A, C06A, C06B, C07A, C01A, C00A, C02A, C04A, C36A

Notes:

1. “A” School required.

2. No two CTTs will follow identical career paths. As a whole, the CTT rating benefits from both the CTTs who are diverse and understand all missions of the rating, but also those that are specialized in just one or two areas. Sustained superior performance has always been the key to success, the CTT that is selected for advancement should be the one that has consistently broken out, whether assigned to surface ships, submarines, aircraft, special forces, as an operator, analyst, technician, or maintainer.

3. Sea/Shore Flow for CTTs is 36/36 with the following exceptions: Surface Cryptologic Direct Support sea tours will be 48 months. Sailors in the 6YO Advanced Electronics Field, a maintenance technician's initial sea tour will be 48 months. All other CTTs will complete a 42-month initial sea tour.



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- a. CTTs selected for Military ELINT Signals Analyst Program (MESAP) or Military OPELINT Signals Analyst Program (MOSAP) internships are required to fulfill a three-year payback tour upon completion of their internship. MESAP graduates should expect to be assigned to an NSA Shore site in a C22A billet. MOSAP graduates should expect to be assigned to an appropriate C09A billet. Following their payback tour, they are eligible to return to their regular sea/shore rotation; however, some C09A/C22As may have subsequent shore tours that keep them out of a regular sea/shore flow. Back-to-back shore duty for C09A/C22A should not be viewed as a detractor as long as they are in a billet that requires C09A or C22A.

4. TIO billets are sea duty billets that augment Special Operations Command in support of Navy SEAL teams in SIGINT, ELINT, and Technical Surveillance. Additional roles for CTTs in NSW include the aforementioned duties in Naval Special Warfare Development Group (NSWDG), Joint Special Operations Command Intelligence Brigade (JIB) Special Boat Teams, and other Special Mission Units. This duty is extremely demanding and leadership opportunities may be limited due to the independent nature of the duties assigned. Due to specific training and operational requirements, some CTTs will remain assigned to this functional area based on their technical expertise and corporate knowledge. This is usually a five-year minimum obligation after which, special screening to remain in NSW may be required. Advancement may preclude a guarantee to stay in NSW due to limited senior billets.

5. Air/Subsurface Direct Support billets are sea duty billets that augment aircraft/submarines in support of Fleet and CNO directed special operations. This duty is considered arduous and extremely challenging; some CTTs will remain confined to this functional area based on their technical expertise and corporate knowledge and multiple tours should not be viewed negatively.

6. Enlisted Warfare pins are expected when available. As of the release of COMNAVIFORINST 1414.1C, EIWS is not mandatory but should remain a factor of consideration when identifying “Best Qualified” candidates for advancement.

7. Consideration should be given to CTT’s who demonstrate rating involvement through participation in important rating modernization functions, including Information Warfare Improvement Process, Occupational Standards Review, PQS Development, Navy Tactical Techniques and Procedures revisions, Naval Warfare Publication revisions, Joint Publication revisions, Advancement Exam Readiness Review, Course Curriculum Development, Rating Strategy Councils, and Training Readiness Reviews. This is especially important at the CTTC and CTTCs level, where they are not only expected participate, but also quantify results of participation.

### Considerations for advancement from E6 to E7

#### 1. Sea Assignments

- a. PCS Afloat
  - Documented superior performance with mission and leadership impact
    - Consideration should be given CTTs with NECs C00A/C02A/C04A who have documented performance that show their contributions to the operational readiness of onboard Electronic Warfare Systems
  - EW Supervisor qualified with operational impact
  - Combat Systems Training Team (CSTT) with documented impact (Sailors led/trained, events executed, etc.) Additional training team membership/leadership should be looked upon favorably
- b. Direct Support Subs or Surface
  - Documented superior performance with mission and leadership impact
  - Electronic Support Measure (ESM) Supervisor (POS 8) qualified (**Subs only**)
  - Qualified National OPELINT Analyst/Battle Force ELINT Analyst or Information Warfare Watch Officer (IWWO) with operational impact (**Surface only**)
  - Performance Information Memorandum (PIM) or Evaluation documents successful team integration with Ship’s company
  - Documented deployment time



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- c. Aircrew
    - Documented superior performance with mission and leadership impact
    - Aircrew Training Continuum (ACTC) Level 400 Instructor with successful deployment showing ability to lead/train
    - Documented deployment time
  - d. Naval Special Warfare (TIO/NSWDG/JIB)
    - Documented superior performance with mission and leadership impact
    - Documented deployment time
  - e. CCSG Staff
    - Documented superior performance with mission and leadership impact
    - IWWO qualified with operational impact (**exception CCSG 4 & 15**)
    - Documented superior performance in mentoring, training and assessing Surface Electronic Warfare IAW ROC/POE/NMETL (**CCSG 4 & 15 only**)
    - Afloat Training Specialist (ATS) Qualified (**CCSG 4 & 15 only**)
    - Provided Integrated Phase feedback to TYCOM and applicable training organizations to facilitate Electronic Warfare training continuum alignment and wholeness (**CCSG 4 & 15 only**)
2. Shore Assignments (all)
- a. Consider positions in which enlisted leaders develop subordinates and mentor them in proper career progression with emphasis on continuing technical development, leadership development and Sailorization. Also consider positions in which impact on Fleet readiness is demonstrated.
  - b. Personnel assigned to RTC, OTC and Naval Academy as a Recruit Division Commander, are carefully screened and selected for this high priority assignment.
  - c. Shore duty billets are primarily at Naval Information Warfare Training Group (NIWTG), Afloat Training Group (ATG), Information Warfare Training Command (IWTC) Learning Centers, Navy Information Operations Command (NIOC) Fleet Information Operations Center (FIOC), RMC, Commander, Operational Test and Evaluation Force (COTF), Naval Special Warfare (NSW), Naval Stations, and Staff commands.
    - Should show strong documented leadership while serving as LPO, NCOIC, Instructor, Mission Supervisor or leading watch teams/sections
    - Should show strong documented technical knowledge in assigned billet
    - Should show documented instructional time if in an instructor billet
    - Demonstrated operational and/or command-wide impact
    - Demonstrated impact on Fleet readiness
    - MTS and ATS are expected when available at commands. CTTs serving in a NCS billet should qualify Adjunct Faculty or Faculty Certification

### Considerations for advancement from E7 to E8

#### 1. Sea Assignments

- a. PCS Afloat
  - LCPO with mission and leadership impact
  - Trains, mentors, and cultivates the skills of junior CTTs to ensure tactical proficiency and operational readiness of onboard systems



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- Surface Warfare Coordinator and/or Air Warfare Coordinator qualified and or IWWO qualified with operational impact
  - If qualified as C00A, C02A, or C04A, LCPOs should be expected to continue to perform work as technical mentor and/or lead technician on afloat units.
  - Combat Systems Training Team (CSTT) with documented impact (Sailors led/trained, events executed, etc.) Additional training team membership/leadership should be looked upon favorably
- b. DESRON Staff
- Information Warfare Staff Officer with squadron-wide mission and leadership impact
  - DESRON Staff Tactical Action Officer and/or IWWO qualified with operational impact
- c. Direct Support Subs or Surface (Information Operations Planner)
- LCPO with mission and leadership impact
  - ESM Supervisor (POS 8) qualified with mission impact as a Chief (**Subs only**)
  - Qualified IWWO with operational impact (**Surface only**)
  - PIM or Evaluation documents successful team integration with Ship's company
  - Documented deployment time
- d. Aircrew
- LCPO with mission and leadership impact
  - ACTC Level 400 Instructor with successful deployment showing ability to lead/train
  - ACTC 500 Weapons and Tactics Instructor is highly regarded for the entire Aircrew community
  - Documented deployment time
- e. Naval Special Warfare (TIO/NSWDG/JIB)
- Documented technical acumen and leadership
  - Documented deployment time
2. Shore Assignments: (all)
- a. Consider positions in which enlisted leaders develop subordinates and mentor them in proper career progression with emphasis on continuing technical development, leadership development and Sailorization. Also consider positions in which impact on Fleet readiness is demonstrated.
- b. Personnel assigned to RTC, OTC and Naval Academy as a Recruit Division Commander, are carefully screened and selected for this high priority assignment.
- c. Shore duty billets are primarily at NIWTG, ATG, NPC, IWTC Learning Centers, NIOCs, FIOCs, RMCs, COTF, NSW, Naval Stations, and Staff commands.
- Should show strong documented leadership while serving as LCPO, NCOIC, Instructor, Mission Supervisor or leading watch teams/sections
  - Should show strong documented technical knowledge in assigned billet
  - Should show documented instructional time if in an instructor billet
  - Demonstrated operational and/or command-wide impact
  - Demonstrated impact on Fleet readiness (e.g. MT&E)
  - MTS and ATS are expected when available at commands. CTTs serving in a NCS billet should qualify Adjunct Faculty or Faculty Certification



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### Considerations for advancement from E8 to E9

#### 1. Sea Assignments

- a. PCS Afloat
  - CVN LCPO with mission and leadership impact
  - Trains, mentors, and cultivates the skills of junior CTTs to ensure tactical proficiency and operational readiness of onboard systems
  - CVN Combat Direction Center Watch Officer qualified and/or IWWO qualified with operational impact
  - Combat Systems Training Team (CSTT) with documented impact (Sailors led/trained, events executed, etc.) - Additional training team membership/leadership should be looked upon favorably
- b. CCSG Staff
  - LCPO and Surface Electronic Warfare Officer/Asst. Electronic Warfare Officer with Strike group-wide mission and leadership impact
  - IWWO qualified with operational impact (**exception CCSG 4 & 15**)
  - Documented superior performance in mentoring, training and assessing Surface Electronic Warfare IAW ROC/POE/NMETL (**CCSG 4 & 15 only**)
  - Afloat Training Specialist (ATS) Qualified (**CCSG 4 & 15 only**)
  - Provided Integrated Phase feedback to TYCOM and applicable training organizations to facilitate Electronic Warfare training continuum alignment and wholeness (**CCSG 4 & 15 only**)
- c. Naval Special Warfare (TIO/NSWDG/JIB)
  - Documented technical acumen and leadership
  - Documented deployment time

#### 2. Shore Assignments (all)

- a. Consider positions in which enlisted leaders develop subordinates and mentor them in proper career progression with emphasis on continuing technical development, leadership development and Sailorization. Also consider positions in which impact on Fleet readiness is demonstrated.
- b. Personnel assigned to RTC, OTC and Naval Academy as a Recruit Division Commander, are carefully screened and selected for this high priority assignment.
- c. Shore duty billets are primarily at NIWTG, ATG, NPC, IWTC Learning Centers, NIOCs, FIOCs, NSW, and Staff commands.
  - Should show strong documented leadership while serving as LCPO, NCOIC, Instructor, Mission Supervisor or leading watch teams/sections
  - Should show strong documented technical knowledge in assigned billet.
  - Demonstrated operational and/or command-wide impact
  - Should show documented instructional time if in an instructor billet
  - Demonstrated impact on Fleet readiness (e.g. MT&E)
  - MTS and ATS are expected when available at commands. CTTs serving in a NCS billet should qualify Adjunct Faculty or Faculty Certification