Information Systems Technicians, Submarine, Network (ITN) receive extensive training in the operation and maintenance of advanced electronic equipment and computers used in submarine systems. Responsible for the operation, routine care, repair, and management of local databases, local area networks (LAN), complex electronic and electro-mechanical, and electronic warfare equipment. ITN personnel are a vital element in the information transfer with state-of-the-art multi-media technology such as fiber optics, digital, microwave, and tactical and commercial satellites on a global basis. They operate, manage, and provide hardware and software support to Automated Information Systems (AIS) to include mainframes, microcomputers, Local Area Networks, Wide Area Networks, and telecommunication systems. Apply diagnostic and restoration techniques utilizing knowledge of electronic and operation system theory. ITN advises on capabilities, limitations, and equipment condition, implements production control procedures including input/output quality control support, implements and monitors security protocols, and performs assigned mission organizational level maintenance and repair of Command, Control, Computer, and Intelligence Systems. ITN personnel also aid in the safe operation of the Submarine while transiting on the surface or at periscope depth.

YEARS OF SERVICE	CAREER MILESTONES	AVERAGE TIME TO ADVANCE	COMMISSIONING OR OTHER SPECIAL PROGRAMS	SEA/ SHORE FLOW	TYPICAL CAREER PATH DEVELOPMENT
26-30	ITNCM	19.6 Yrs	FORCM, COB/CMC Program, CSEL	36	4th Shore Tour Billet: CSEL Duty: TYCOM/GRP/SQD/SRS/ ISSM/NPC/BUPERS
23-26	ITNCM ITNCS	19.6 Yrs 16.7	FORCM, COB/CMC Program, CSEL	36	4th Sea Tour Billet: COB/3MC/CSEL Duty: Submarine Qualification: DOOW/COW/ Pilot/DCPO/Cyber Inspector
20-23	ITNCM ITNCS ITNC	19.6 Yrs 16.7 12.7	CWO, COB/CMC Program, CSEL, ECM	36	3rd Shore Tour Billet: ECM/SEA/ISSO/CSEL Duty: TYCOM/GRP/SQD/SRS/ NPC/BUPERS Qualification: MTS/ EIWS / Cyber Inspector
14-20	ITNCS ITNC ITN1	16.7 Yrs 12.7 7	CWO, OCS, MECP, CSEL, COB	42	3rd Sea Tour Billet: COB/3MC/LCPO/ ISSM/ISSO/CSEL Duty: Submarine Qualification: COB/DOOW/COW/Pilot/DCPO/Cyber Inspector (ITNC Only)
12-14	ITNCS ITNC ITN1	16.7 Yrs 12.7 7	LDO E7 and above, E6 Board Eligible, OCS, MECP, CSEL	36	2nd Shore Tour Billet: Instructor/LCPO/ISSM/ISSO Duty: TYCOM/GRP/SQD/SRS/ /School House/BCA Watchfloor/BCA SYSADMIN Qualification: MTS/ EIWS/Groom Team Leader/Cyber Inspector (ITNC Only)
8-12	ITNC ITN1 ITN2	12.7 Yrs 7 3.1		48	2nd Sea Tour Billet: LCPO/LPO/ISSM/ISSO Duty: Submarine/Submarine Tender Qualification: DOOW/COW/ Pilot/DCPO/Cyber Operator/Cyber Technician/SYSADMIN Advanced/Cyber Inspector (ITNC Only)

Revised: October 2024

YEARS OF SERVICE	CAREER MILESTONES	AVERAGE TIME TO ADVANCE	COMMISSIONING OR OTHER SPECIAL PROGRAMS	SEA/ SHORE FLOW	TYPICAL CAREER PATH DEVELOPMENT
4-8	ITN1 ITN2 ITN3	7 Yrs 3.1 1.5	STA-21, OCS, MECP	36	1st Shore Tour Billet: Instructor/ RDC/ FLT Support Duty: School House/RTC/GRP/SQD/ Shipyard/IMF/BCA Watchfloor/BCA SYSADMIN Qualification: MTS/ LAN Groomer/ EIWS/SYSADMIN Intermediate/SYSADMIN Advanced
1-4	ITN2 ITN3	3.1 Yrs 1.5	Naval Academy, NROTC	54	1st Sea Tour Billet: LAN Technician Duty: Submarine Qualification: Submarine Warfare/CYBER OPS/CYBER TECH/ COMSEC User/BDW/POOD/SYSADMIN Entry/ SYSADMIN Intermediate
1+/-	ITNSN ITNSR Accession Training	7 Months			Recruit Training and all schools or training events required to be completed prior to reporting to their first operational command

Notes:

1. On 1 June 2020 the ETR and ITS ratings were combined into a single ITS rating with two distinct specialized career paths (ITE-COMMS and ITE). On November 2023, The ITS-COMMS and ITS-EW were split into three distinct specialized paths (ITE (ELECTRONIC WARFARE), ITR (RADIO) and ITN (NETWORK)).

2. Enlisted Warfare pins are expected when available to include insignias such as the Master Training Specialist, deep submergence pin and small boat officer/petty officer in charge of small craft. 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.

3. CYBER TECH (In Port) and CYBER OPS (At Sea) qualification requirements are combined therefore if one or the other is listed, qualifications for both are considered to be met.

4. Special considerations for BEST QUALFIED should be made for E7 to E8 AND E8 to E9 candidates who have volunteered for rating community enhancing efforts such as Selection Boards, AERRs, Occupational Standards Reviews, JDTAs, and Program Reviews.

5. Personnel in a Designator-8 status are disqualified from Submarine service, are not eligible for advancement, and are not reassigned to Submarines without prior approval of NAVPERSCOM.

6. Acronyms:

BCA:	Broadcast Control Authority
COB:	Chief of the Boat
CSEL:	Command Senior Enlisted Leader
COW:	Chief of the Watch
CUS:	Commander Undersea Surveillance
DCPO:	Duty Chief Petty Officer
DOOW:	Diving Officer of the Watch
EIWS:	Enlisted Information Warfare Specialist

IMF:	Intermediate Maintenance Facility
ISSM:	Information Systems Security Manager
ISSO:	Information Systems Security Officer
SYSADMIN:	System Administrator
Cyber Ops:	Cyber Operator
Cyber Tech:	Cyber Technician
NOPF:	Navy Ocean Processing Facility
SSEP:	Submarine Surveillance Equipment Program
BDW:	Below Decks Watch
POOD:	Petty Officer of the Deck
TRE:	TYCOM Readiness Evaluation
CWF:	Cyberspace Workforce
AERR:	Advancement Exam Readiness Review
JDTA:	Joint Duty Task Analysis

7. Rating NECs:

737A:	Naval Tactical Command Support System (NTCSS) II Manager
741A:	Information System Security Manager (ISSM)
742A:	Network Security Vulnerability Technician (NSVT)
T47A:	Submarine Local Area Network (SUBLAN) Technician
746A:	Information Systems Administrator
731A:	Information System Maintenance Technician
735A:	Consolidated Afloat Networks and Enterprise Services (CANES) Administrator-Software 3 and 4 (SW3/SW4)
8SEA:	Senior Enlisted Academy

8. Advancement in the ITN rating is enhanced by superior performance documented in the candidate's evaluations for the following:

    a. Command Impact
    b. Inspection performance/results
    c. Squadron rankings
    d. Command rankings
    e. Critical Billets (TYCOM/GRP/ISIC/Forward Deployed Naval Forces/Oversea)
    f. Squadron recognized unit awards
    g. Significant Contributions to rating (AERR, TRR, Instructor, Inspection Team)
    h. Having served successfully as the Department LCPO at sea (Minimum 12 months).
    i. TYCOM, GROUP, ISIC, Shore Command Leading/Department LCPO

Consideration for advancement from E6 to E7

- FULLY QUALIFIED:
  - If they have served as an LPO for greater than 12 months, AND
  - Are qualified CYBER TECH/OPS.
- BEST QUALIFIED:
  - If they meet the FULLY QUALIFIED standard, AND
  - Hold NEC 742A Network Security Vulnerability Technician (NSVT), AND
  - Are qualified COW (688/SSBN/SSGN) OR Duty Chief (VACL), AND
  - Have a history of sustained superior performance defined as a majority of their Individual Trait Averages ABOVE RSCA.

For candidates whose rating has been affected by the ITS Rate Merger (June 2020) and subsequent ITS Rate Split (2024), the board MUST take a holistic review of the Sailor's record when determining if they are FULLY and BEST QUALIFIED, since it is understood that not all candidates had the opportunity to meet those

qualification or NEC standards. Board members must consider the current or previous duty assignment to determine if the Sailor had the ability to obtain those standards.

Candidates must qualify or re-qualify At Sea watches within the required timeframe per the community Continuing Training and Qualifications Manual (CTQM) COMSUBLANT/COMSUBPACINST 3500.3 (Series) to receive credit for fully and best qualified.

Due to the repetitive nature of the Submarine rating billet profiles, repeat tours of similar assignments should not be viewed negatively towards performance and career progression.

For candidates who have only served on one Submarine, i.e., follow on sea tours were at Special Projects or at a Submarine Tender, the board MUST carefully weigh their achievements and demonstrated leadership when determining if they are BEST QUALIFIED since it is understood they might not have had the opportunity to meet the qualification standard.

For candidates who have converted into the submarine force, the board MUST consider the Sailor's achievements and demonstrated leadership in their previous community when determining if they are BEST QUALIFIED since it is understood they might not have had the opportunity to meet the qualification standard.

Candidates serving or who have served as a 3MC for greater than 12 months have met the standard for having served as an LPO or LCPO.

Personnel assigned to RTC, OTC, and Naval Academy as a Recruit Division Commander, are carefully screened and selected for this high-priority assignment.

The following qualification equivalents are to be used for Sailors serving at the identified Special Project:

Detachment UR&D:
Fully QUALIFIED if they have served as an LPO AND are qualified either STBD Tethered Management System (TMS), OR ROV Pilot, OR Port Payload (PPHL), or Mission Navigation Watch, OR EES1 Technician.

BEST QUALIFIED if they meet the FULLY QUALIFIED standard AND are qualified either Mission Duty Chief (MMP DCPO) or COW/DCPO as stated above.

Detachment TRITON:
FULLY QUALIFIED if they have served as an LPO AND are qualified Mission Watch Supervisor (MWS).

BEST QUALIFIED if they meet the FULLY QUALIFIED standard and are qualified Mission Control Officer (MCO) or COW/DCPO as stated above.

Detachment POSEIDON:
FULLY QUALIFIED if they have served as an LPO AND are qualified Mission Watch Supervisor (formerly Projects Watch Supervisor (PWS).

BEST QUALIFIED if they meet the FULLY QUALIFIED standard AND are qualified either MCO or COW/DCPO as stated above.

UIC 45242, 60162, and 60163:
FULLY QUALIFIED if they have served as an LPO at UUVRON-1 and have qualified their UUV senior in-rate watch of UUV Specialist and Command Duty Officer (CDO) (Ship's DCPO equivalent). BEST QUALIFIED status should be given to those Sailors qualified Mission Control Officer (MCO) (COW equivalent).

UIC 4000Y:
FULLY QUALIFIED if they have served as an LPO at UUVRON-1 and have qualified their UUV senior in-rate watch of UUV Pilot and Command Duty Officer (CDO) (Ship's DCPO equivalent). BEST QUALIFIED status should be given to those Sailors qualified Command and Control Watch Officer (C2WO

Consideration for advancement from E7 to E8

- FULLY QUALIFIED:
  - If they have served as a LCPO for 12 months, AND
  - Are qualified the following:
    1. COW (688\SSBN\SSGN) or Duty Chief (VACL), AND
    2. Cyber Inspector, AND
    3. Information System Security Manager (ISSM) NEC 741A
- BEST QUALIFIED:
  - If they meet the FULLY QUALIFIED standard, AND
  - Are qualified DOOW (688/SSBN/SSGN) or PILOT (VACL), AND
  - Have a history of sustained superior performance defined as a majority of their Individual Trait Averages ABOVE RSCA.

For candidates whose rating has been affected by the ITS Rate Merger (June 2020) and subsequent ITS Rate Split (2024), the board MUST take a holistic review of the Sailor's record when determining if they are FULLY and BEST QUALIFIED, since it is understood that not all candidates had the opportunity to meet those qualification or NEC standards. Board members must consider the current or previous duty assignment to determine if the Sailor had the ability to obtain those standards.

Candidates must qualify or re-qualify At Sea watches within the required timeframe per the community Continuing Training and Qualifications Manual (CTQM) COMSUBLANT/COMSUBPACINST 3500.3 (Series) to receive credit for fully and best qualified.

Due to the repetitive nature of the Submarine rating billet profiles, repeat tours of similar assignments should not be viewed negatively towards performance and career progression.

For candidates who have only served on one Submarine, i.e., follow on sea tours were at Special Projects or at a Submarine Tender, the board MUST carefully weigh their achievements and demonstrated leadership when determining if they are BEST QUALIFIED since it is understood they might not have had the opportunity to meet the qualification standard.

For candidates who have converted into the submarine force, the board MUST consider the Sailor's achievements and demonstrated leadership in their previous community when determining if they are BEST QUALIFIED since it is understood they might not have had the opportunity to meet the qualification standard.

Candidates serving or who have served as a 3MC for greater than 12 months have met the standard for having served as an LPO or LCPO.

The following qualification equivalents are to be used for Sailors serving at the identified Special Project:

Detachment UR&D:
Fully QUALIFIED if they have served as an LCPO.

BEST QUALIFIED if they meet the FULLY QUALIFIED standard AND are qualified Mission Duty Chief (MMP DCPO), Mission Watch Supervisor, and Research Duty Officer or DOOW/PILOT as stated above.

Detachment TRITON:
FULLY QUALIFIED if they have served as a Cadre LCPO.

BEST QUALIFIED if they meet the FULLY QUALIFIED standard and are qualified Mission Control Officer (MCO) or DOOW/PILOT as stated above.

Detachment POSEIDON:
FULLY QUALIFIED if they have served as Cadre LCPO.

BEST QUALIFIED if they meet the FULLY QUALIFIED standard AND are qualified either MCO or DOOW/PILOT as stated above.

UIC 45242, 60162, and 60163:
FULLY QUALIFIED if they have served as an LCPO. BEST QUALIFIED status should be given if they are qualified the following: Mission Control Officer (MCO) (COW equivalent) and Command Duty Officer (Ship's DCPO equivalent).

UIC 4000Y:
FULLY QUALIFIED if they have served as an LCPO. BEST QUALIFIED status should be given if they are qualified the following: Command and Control Watch Officer (C2WO), (COW equivalent), and Command Duty Officer (Ship's DCPO equivalent).

Special consideration should be given to those candidates who are serving, or who have served at a Broadcast Control Authority (BCA) and who have qualified and stood Communications Watch Officer (CWO). This is a challenging shore assignment with increased leadership responsibility and fleet impact.

Consideration for advancement from E8 to E9

- FULLY QUALIFIED:
    - If they have served as a LCPO for 12 months, AND
    - Are qualified the following:
        1. DOOW (688\SSBN\SSGN) or Pilot (VACL), AND
        2. Cyber Inspector, AND
        3. Information System Security Manager (ISSM) NEC 741A
- BEST QUALIFIED:
    - If they meet the FULLY QUALIFIED standard, AND
    - Are qualified Chief of the Boat, AND
    - Have a history of sustained superior performance defined as a majority of their Individual Trait Averages ABOVE RSCA.

For candidates whose rating has been affected by the ITS Rate Merger (June 2020) and subsequent ITS Rate Split (2024), the board MUST take a holistic review of the Sailor's record when determining if they are FULLY and BEST QUALIFIED, since it is understood that not all candidates had the opportunity to meet those qualification or NEC standards. Board members must consider the current or previous duty assignment to determine if the Sailor had the ability to obtain those standards.

Candidates must qualify or re-qualify At Sea watches within the required timeframe per the community Continuing Training and Qualifications Manual (CTQM) COMSUBLANT/COMSUBPACINST 3500.3 (Series) to receive credit for fully and best qualified.

Due to the repetitive nature of the Submarine rating billet profiles, repeat tours of similar assignments should not be viewed negatively towards performance and career progression.

For candidates who have only served on one Submarine, i.e., follow on sea tours were at Special Projects or at a Submarine Tender, the board MUST carefully weigh their achievements and demonstrated leadership when

determining if they are BEST QUALIFIED since it is understood they might not have had the opportunity to meet the qualification standard.

For candidates who have converted into the submarine force, the board MUST consider the Sailor's achievements and demonstrated leadership in their previous community when determining if they are BEST QUALIFIED since it is understood they might not have had the opportunity to meet the qualification standard.

Candidates serving or who have served as a 3MC for greater than 12 months have met the standard for having served as an LPO or LCPO.

Personnel assigned to RTC, OTC, and Naval Academy as a Recruit Division Commander, are carefully screened and selected for this high-priority assignment.

UIC 4000Y, 45242, 60162, and 60163:
FULLY QUALIFIED and BEST QUALIFIED status should be given if they are qualified Chief of the Boat.