



QTR 3 2025

SWO_WTI@navy.mil



Mission:

To increase the lethality and tactical proficiency of the Surface Force across all domains

SMWDC Organizational Structure

SMWDC Headquarters - San Diego, CA

N1/4

N2

N6

N8/9

CAG

PAO

JAG

Surface Advanced
Warfighting School
(SAWS)

San Diego, CA

Fleet Training
Directorate - Pacific /
Atlantic (FT-P/L)

San Diego, CA/Little Creek, VA

Surface Warfare
Technical Division
(SWTD)

Dahlgren, VA

Mine Countermeasures
Technical Division
(MCMTD)

PL Loma, CA

WTI
PRODUCTION



- Highly trained SWOs who specialize in one of four warfare areas – IAMD, ASW/SUW, AMW, or MIW – and enable SMWDC's LOO

ADVANCED
TACTICAL
TRAINING



- Classroom, synthetic, and underway training evolutions for individuals, ships, and staffs to increase lethality and tactical proficiency through tactical reps and sets

OPERATIONAL
SUPPORT



- Direct, reachback, mission package, or fly away support provided to ships, squadrons, strike groups, independent deployers, and Commanders

DOCTRINE &
TACTICAL
GUIDANCE
DEVELOPMENT



- Tactical publications for the warfighter in the form of doctrine or tactics, techniques and procedures, to serve as authoritative guidance in a readable, understandable executable, and repeatable manner

CAPABILITY
ASSESSMENTS,
EXPERIMENTATION
& REQUIREMENTS



- Tactical level warfighting effectiveness assessments; capabilities assessments through the warfare improvement programs



- **LT Jackson Parrish (ASW/SUW WTI)**
 - Provides critical support for operational support via the SMWDC Fly Away Team.
 - ASW/SUW lead SWATT planner for GHWB SWATT.
 - Provides training to the fleet on tactical employment of US Navy assets against peer competitor submarines.
 - Fun fact, he's a SWO(N)!





- **LT Alex Neal
(IAMD WTI)**
 - Lead SME for real-world event analysis and associated tactics development support
 - Traveled to the Red Sea to support real time operations
 - Collaborates with industry to enhance Fleet lethality—Lockheed Martin, Johns Hopkins, MIT, Missile Defense Agency





- **LT Julia Bucholz
(ASW/SUW WTI)**
 - Provides outreach across the East Coast, C6F, and C5F
 - SME supporting Silent Swarm, increasing fleet lethality using unmanned systems
 - Works with our foreign partners, such as South Korea, in ASW SHAREM events





- **DHRB not required**
- **WTIs can serve in community tours or other shore duty billets (SECNAV Industry or NPS) if it fits into your career pipeline**
- **There are multiple opportunities for graduate education during and post WTI production tour**
- **WTI is open to SWO(N), LDO/Warrant, pilots, EOD, Marines, USCG, and Reservists (on limited basis)**



WTI Eligibility / How to Apply



- **Basic Eligibility Criteria**
 - SWO qualified or Surface LDO / CWO (usually Ops Tech, Combat Systems, or Deck designators)
- **Application Instruction (SAWSINST 1402.2)**
- **Best Practices from successful applicants**
 - Articulate how you have demonstrated the qualities of a WTI in your career – humble, credible, approachable and warrior, thinker, teacher
 - Be specific in describing your role during exercises and operations
 - Address anything in your record that could be perceived negatively
 - LOR from a current WTI
- **Submit your application (with all required enclosures) prior to slating for your next tour**



Selection Board Process



- **Six selection boards per year (JAN, MAR, MAY, JUL, SEP, NOV)**
 - **Application deadline is the second Friday of odd numbered months**
 - **Board procedure mirrors that used by PERS for milestone (admin) and promotion (statutory) boards**
 - **Chaired by SAWS Director or Deputy Director**
 - **Voting members are qualified WTIs with each patch type represented**
 - **All information submitted is briefed to board**
- **Results approved by SMWDC Commander**



- **WTI candidate selected by Ship's CO**
 - 1 per calendar year, per CO
- **No application required**
- **1st or 2nd tour DIVO primary candidates (SWO only)**
- **May select any WTI pipeline**
- **Must be red chipped prior to slating, not during the process**

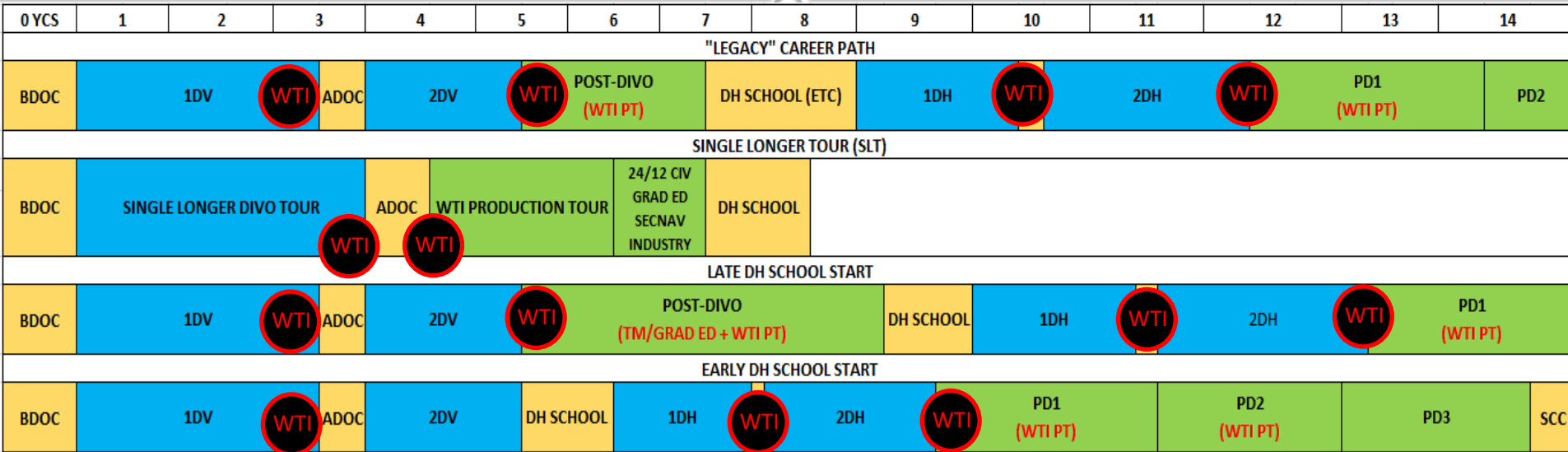


- **The WTI MC and your detailer will work to enroll you in a COI that fits your career timing**
- **Awarded the KWS AQD (WTI Select)**
 - **Remains active for 18 months to accommodate completion of required sea tours, etc., before commencing WTI COI**
 - **Can be extended an additional 18 months if requested by submitting FITREPs received since selection**



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How WTI Fits in the SWO Career Path



Increased SWO Career Flexibility = Increased WTI Opportunities

- **"Legacy" Career Path**
 - Between DIVO Tours, post-DIVO, or post-DH
- **Single Longer Tour (SLT)**
 - Opportunity to complete WTI COI en-route to post Division Officer shore duty
- **Late DH School Start**
 - Increased post-DIVO time ashore allows completion of Talent Management / Grad Ed + WTI COI + Production Tour prior to DH School
- **Early DH School Start**
 - Multiple opportunities to complete WTI COI ICW other required training, or following DH sea tours



**ALL COIs ARE 16 WEEKS, INCLUDING 14 WEEKS OF PATCH SPECIFIC CURRICULUM
EVERY WTI CANDIDATE STARTS WITH 1 WEEK OF INSTRUCTOR SKILLS TRAINING
AND CONCLUDES WITH 1 WEEK OF CAPSTONE**



ASW/SUW

- 14 Week Curriculum – KW1 AQD
 - 14 weeks in San Diego, CA



IAMD

- 14 Week Curriculum – KW2 AQD
 - 3 weeks in Dahlgren, VA
 - 1 week in Fallon, NV



AMW

- 14 Week Curriculum – KW3 AQD
 - 1 Week in Camp Pendleton, CA
 - 1 Week in Wallop's Island, VA



MIW

- 14 Week Curriculum – KW4 AQD
 - 14 weeks in San Diego, CA
 - Supplemental training in Belgium tied to Billet Specialty Training required for the WTI Production Tour



- **WTIs support SMWDC lines of effort in addition to routine billet responsibilities**
 - Includes supporting SWATT, TTP development, and community of focus assistance
 - Locations include commands like SMWDC, SCSTCs, ATGs, SWSC, TTGP/L, CSG-4/15, SURFDEVGRU, USVRONs, and NAWDC
- **While on shore duty, WTIs have time to:**
 - Complete Masters programs and / or JPME via distant education
 - Focus on family planning
 - Enjoy a positive work life balance



WTI Scholars Program (NPS)



- **WTIs can complete an in-resident (accelerated curriculum) Master's Degree via NPS**
 - **Post production tour opportunity**
 - **Graduate degree earned in 12-15 months**
 - **Open to LT WTIs (post-DIVO LTs must be screened for DH and sign DHRB)**
 - **Nine curricula available – with WTI-relevant coursework:**
 - **Applied Math**
 - **Applied Physics**
 - **Cyber Systems and Operations**
 - **Engineering Acoustics**
 - **Electrical Engineering**
 - **Mechanical Engineering**
 - **Network Operations and Technology**
 - **Operations Research**
 - **Physical Oceanography**
- **Masters of Maritime Warfare (MWO)**



- **Professional growth**
 - Advocacy from SMWDC throughout your career
 - WTIs screen for career milestones at a higher rate than SWO overall (FY24)
 - Major Command: 57.4% on first look vice 42%
 - CO Afloat: 47.22% vice 35.08%
- **Graduate education**
 - WTI Scholars, GEV, NWC (including Fleet Seminar), LGEP



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Benefits of Being A WTI (cont.)

- **Job satisfaction**
 - **Coordinate with industry, joint / coalition forces, participate in cutting edge tactics development**
- **Travel opportunities / Communities of Focus (CoF)**
 - **Participate in working groups around the world**



What's new in the WTI Program



- **KWC AQD when production tour complete**
 - Opportunity to return to SMWDC or specific KWC coded billets later in the career progression
- **KW1 and KW2 courses are filling up approximately 6-9 months in advance**
 - Early planning for enrollment is key to ensure attendance in a class



What's new in the WTI Program (cont.)



- **SWOBOSS direction—one WTI DH per ship**
 - **Vision: tactical standard bearer providing critical support for tactical success**
 - CSTT expertise
 - SWCTC enabler
 - **Could affect slating for DH tours based on WTI specialization**
 - **KWC preferred, CRUDES initial focused effort**
 - Non-KWC DHs, DIVOs, and CWO/LDOs to help mitigate

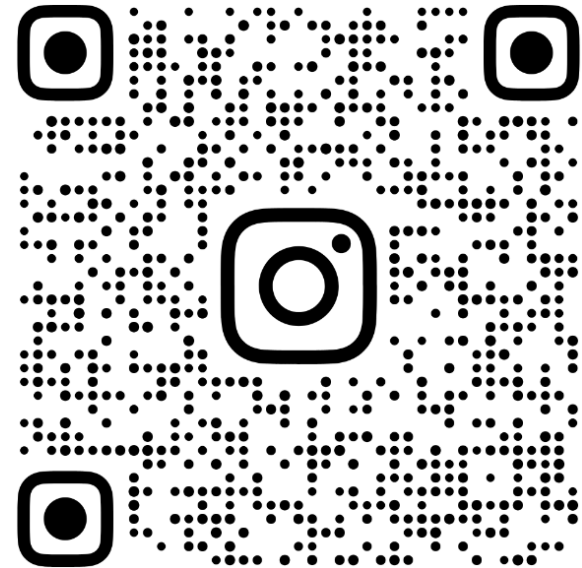


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- **LCDR Joshua White (ASW/SUW WTI)**
 - WTI Program Manager
 - joshua.t.white38.mil@us.navy.mil

- **LT Shelby Brueske (ASW/SUW WTI)**
 - Outreach and Recruiting Officer
 - shelby.n.brueske.mil@us.navy.mil

- **LT Danny Anderson (MIW WTI)**
 - Selection & Admissions Officer
 - daniel.f.anderson15.mil@us.navy.mil



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<https://www.surfpac.navy.mil/Ships/Naval-Surface-and-Mine-Warfighting-Development-Center-SMWDC/About/WTI/>



KW1- ASW/SUW Curriculum



- **Array Theory and Beamforming**
- **SQQ-89 System**
- **USW DSS**
- **SUW Passive Localization**
- **Time Frequency Analysis**
- **Target Motion Analysis**
- **ASW Weapons**
- **ASW Attack**
- **ASW Countermeasures**
- **WSM & PMI**
- **AOMSW**
- **Mission Planning**
- **Gunfire Tactics**
- **OTHT**
- **SAG Operations**
- **FAC/FIAC**
- **SUW Missiles**
- **CDAG**
- **Tactical use of MPRA**
- **SUW Fundamentals**
- **Link**
- **SUW Targeting**





- **AD Overview / Single Ship AD**
- **AWS**
- **SSDS**
- **BMD**
- **TCP / Weapon Doctrine Development**
- **Force AD: AMDC / FAAWC / Air-to-Air Tactics**
- **EW**
- **Networks**
- **IWIC / NAWDC Integration**
- **Adversary Tactics**





KW3- AMW Curriculum



- Amphibious Planning
- Amphibious Embarkation
- Landing Plan Development
- Shaping Operations
- Maritime Prepositioning Force
- Seabasing
- C2 and Fleet Organization
- MAGTF Organization
- Forward Deployed C2
- Combat Cargo
- Fleet Immersion
- Tactical Air Control Squadron
- Air C2 Coordination
- Amphibious Fires Organization
- Fire Support Planning
- Targeting
- Ground Fire Support Assets
- Naval Beach Group
- Defense Support of Civil Authorities
- SSDS Engagement Process





KW4- MIW Curriculum



- Mechanical Sweeping Systems and Tactics
- Acoustic Sweeping Systems and Tactics
- Magnetic Sweeping Systems and Tactics
- UUV and USV Systems and Tactics
- Minehunting Systems and Tactics
- NATO 7-Question Model / Navy Planning Process in MIW Staff and Crisis Action Planning
- Surface Mine Counter Measures (SMCM)
- Aviation MCM (AMCM)
- Underwater MCM (UMCM)
- Expeditionary MCM (ExMCM)
- MCM in AMW Operations
- Mining Operations and Tactics
- MINEnet Tactical / MCM Expert / Minefield Planning Program
- Post Mission Analysis (PMA)





WTI Program Status Update

- **725 Active Duty WTIs**
 - (KW1) ASW/SUW: 309
 - (KW2) IAMD: 232
 - (KW3) AMW: 153
 - (KW4) MIW: 31
- **41 Reserve Unit WTIs**
- **2024**
 - Goal 135
 - Seated 168, produced 146 WTIs
- **2025**
 - Goal increased to 145

"We do not rise to the level of our expectations. We fall to the level of our training."



SMWDC Production Tours



Internal SMWDC Production Tours

	KW1	KW2	KW3	KW4	Total
N4005Y SMWDC HQ	26	16	12	2	56
N53201 Det Pt Loma (MCM TD)	0	0	0	4	4
N53202 Det Little Creek (FT-LANT)	14	14	11	0	39
N53203 SAWS	27	21	14	7	69
N33477 Det Fallon	0	3	0	0	3
N57091 Det Dahlgren (SWTD)	1	2	0	0	3
Total	68	56	37	13	174



External Production Tours



External SMWDC Production Tours					
	KW1	KW2	KW3	KW4	Total
NAWDC	1	1	0	0	2
CSG-4	2	1	1	0	4
CSG-15	2	1	1	0	4
NIWDC	1	1	0	0	2
NEXWDC	0	0	1	0	1
UWDC Det San Diego	4	0	0	0	4
UWDC Det Norfolk	4	0	0	0	4
ATG San Diego	1	1	1	3	6
ATG Norfolk	1	1	1	0	3
EWTG Atlantic	0	0	2	0	2
EWTG Pacific	0	0	1	0	1
EWTG Pacific FMS Coronado	0	0	1	0	1
SCSTC ATRC Dahlgren	0	6	0	0	6
SCSTC Mayport (Det Southeast)	1	1	0	0	2
SCSTC Pearl Harbor (Det MIDPAC)	1	1	0	0	2
SCSTC Yokosuka (WESTPAC)	1	1	0	0	2
SCSTC Fleet ASW (Det Southwest)	2	0	0	0	2
TACTRAGRULANT	1	1	1	0	3
TACTRAGRUPAC	1	1	1	0	3
SWSC	1	1	1	0	3
COMSURFDEVGRU ONE	1	0	0	0	1
USV SQUADRON THREE	3	0	0	0	3
USV SQUADRON ONE	3	0	0	0	3
USV SQUADRON SEVEN	3	0	0	0	3
PEP BELGIUM OOSTENDE	0	0	0	1	1
COMLCSRON 1	0	0	0	1	1
Nimitz OPINTEL Center DC	1	1	0	0	2
Mine Warfare Training Ctr	0	0	0	2	2
Total	35	19	12	7	73



- **Send the Red Chip candidate's information to SWO_WTI@navy.mil:**
 - **Full Name:**
 - **Email:**
 - **Personal Email:**
 - **Cell Phone:**
 - **PRD:**
 - **Desired Patch Type:**