









QTR 2 2024

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	3/9	CAG	F	PA0	JAG	
	Surface Advanced Warfighting School (SAWS)		Fleet Training Directorate - Pacific / Atlantic (FT-P/L)		Surface Warfare Technical Division (SWTD)			Mine Countermeasures Technical Division (MCMTD)		
San Dlego, CA		San Diego, CA/Little Creek, VA			Dahlgren, VA			Pt. 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



WTI Program Status Update

- 640 Active Duty WTIs
 - (KW1) ASW/SUW: 273
 - (KW2) IAMD: 201
 - (KW3) AMW: 139
 - (KW4) MIW: 27
- 34 Reserve Unit WTIs
- 2023
 - Goal 115
 - Seated 143, produced 121 WTIs
- 2024
 - Goal increased to 135



- DHRB not required
- You can be a WTI and serve in community tours or other shore duty billets (SECNAV Industry, FSEP, 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, Marines, and Reservists (on a case-by-case basis)



WTI Training / Pipelines



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



AMW

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



IAMD

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



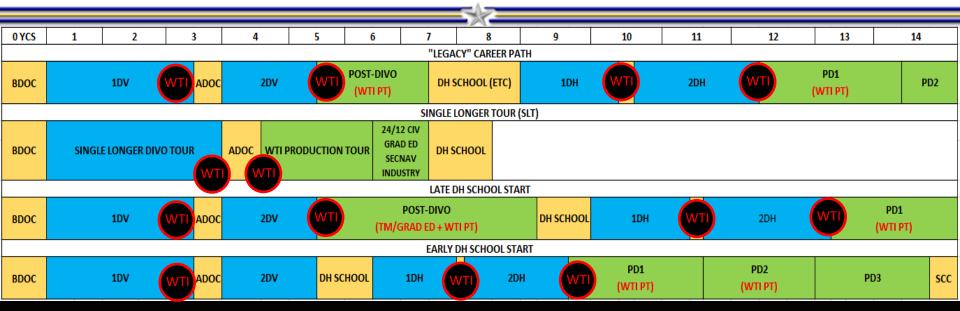
MIW

- 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

ALL COIS ARE 16 WEEKS, TAUGHT PRIMARILY AT SAWS IN SAN DIEGO, CA
EVERY WTI CANDIDATE STARTS WITH 1 WEEK OF INSTRUCTOR SKILLS TRAINING
AND CONCLUDES WITH 1 WEEK OF CAPSTONE



How WTI Fits in the SWO Career Path



<u>Increased SWO Career Flexibility = Increased WTI Opportunities</u>

- "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



- WTIs hone their skills as warriors, thinkers, and teachers supporting Advanced Tactical Training and revising tactical pubs and doctrine
 - Locations: SMWDC, SCSTCs, ATGs, SWSC, TTGP/L, CSG-4/15, SURFDEVRON, EWTGs, NAWDC, UWDC, ONI, NIWDC, NEXWDC, and Nimitz OPINTEL Center
 - 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



What's new in the WTI Program



- 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)
- Automatically awarded "KWS" AQD (WTI select)
- May select any WTI pipeline
- Must be red chipped prior to the sea or shore slate

Graduate Education

- WTI Scholar (NPS) executed in conjunction with Talent Management Board
- NPS Graduate Opportunities
- Talent Management + WTI
- KWC AQD when production tour complete
 - Opportunity to return to SMWDC or specific KWC coded billets later in the career progression



WTI Scholars Program (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
- Meyers Scholar Certification





- 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
- PERS cannot and will not slate you to a WTI tour without KWS in your record





- 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
- Selection board results approved by SMWDC Commander





- The WTI Management Cell and your detailer will work to enroll you in a COI that best fits your career path / timing
- Career timing and PRD may impact COI placement
- 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



- Professional growth
 - Advocacy from SMWDC throughout your career
- Personal 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
- Graduate education options:
 - WTI Scholars, GEV, NWC (including Fleet Seminar), FSEP, LGEP
- WTIs continue to screen for career milestones at a higher rate than SWO overall



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





Mission:

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



WTI **PRODUCTION**



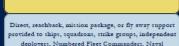
Highly-trained surface warfare officers who specialize in one of four warfare areas - integrated air and missile defense, anti-submarine/anti-surface warfare, amphibious warfare, or mine warfare - and enable SMWDC's lines of operation

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



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** & REOUIREMENTS

Tactical level warfighting effectiveness assessments; capabilities assessments through the warfare improvement programs; CONOPS and CONEMPS working groups

Component Commanders, and Combatant Commanders ACCOMPLISHMENTS

- Produced 121 WTTs in
- ASW/SUW 57
- IAMD 31
- houses into one at SAWS



KWI. ASW/SITW KWI. AMW

- Executed six SWATTs in CY 2023
- 9 3 CSGs
- · 3 ARGs
- Developed and implemented a close quarters maneuvering scenario
- Facilitated or supported 31 Courses of Instruction in CY23 including ISO SWATT, TYCOM Indoc, PTO, Submarine Commanders Course, etc.
- Supported 12 named exercises
 - 6 in C7F

 - Provided 24/7 reachback support to the fleet from IAMD and civilian missile defense specialists at the inflection point of the Red Sea crisis
 - Filled WTI LNO billet at C6F (USNR LT)

- Updated 20 pubs within the TTP library
- Completed and published 9 new pubs
 - o 2 Tactical Bulletins

 - o 1 Tactical Note · 1 NTTP
- Revised 4 pubs (3 NTTP, 1 TM)
- Cancelled 7 publications due to updates and revision
- Successfully developed and executed inaugural SURFRG Cycle in FY23 identify tactical priorities and technical solutions to advise resourcing process
- o 15 tactical priorities identified
- Outbriefed to industry partners at SNA West
- Developed initial POM requirements for West Coast Training Facility
- Conducted 7 experimentation events, 2 SHAREMs, 5

Produce 135 WTIs

- . Seat 80% of COI Capacity
- · One KW2 aboard all AMDC Platforms Fill WTI Production Tours to 80%
- · At least one DH Afloat WTI aboard every ship
- Revitalization of WTI Communities of Focus
- WTI Billets at OPNAV N9X
- · WTI Red Chip Program
- · WTI Fleet Outreach
- · IW Integration into WTI COIs

Integrate and standardize Information Warfare into SWATT through IWEX events

- Increase the complexity in presentation for LFWAP
- · Incorporate HEPS tactics in SWAP
- Increase EA/EP/DE in SWATT serials
- · Increase joint participation through long-range fires
- · Standardize USV employment
- Develop and execute an LCS MCM Mission Package
- Increase relevance and presentation of cUAS serials
- Ouantify the value of SWA'TT through PA Cell

2 0 2 4 GOALS:

- · Increase analytic capability of SWTD in ASW/SUW
- Establish LNO billets with NSW and C5F
- · Expand analytic capability partnerships through contracts with university affiliated research centers and federally
- · Further engagement with NATO and C6F partners in support of MIWC Battle Staff Certification during BALTOPs and Black Sea operations
- Support stand up of C6F MCM CTF (MCMGRU 6)

- . Reduce the average age of the TTP library to under 5
- · Maximize releasability of TTP to partner nations
- · 24 publications under creation, revision, or consolidation Refine PAC3 MSE roadmap, SPEIR, NSM, and SEWIP
- · Develop capability roadmaps for SM6 IAU, HPM, NSM, ESSM BLKII, PAC3 MSE
- Support future fight initiatives (NCIP, Virtual Warfare Center), representing surface enterprise operational objectives and tactical priorities
- Expand SURFRG
- Add additional PEOs, industry touch points, resource
- · Create SURFREM program in collaboration with
 - · Leverage ATLANTIC THUNDER for data
- Execute Integrated Warfare WIP cycle at the REL FVEY classification level









Tactical Excellence by Design







SUPPORTING THE FLEET



- Global Maritime Response Plan
- Warfare Commander Courses of Instruction
- IW Integration in Surface Warfare
- Project OVERMATCH
- Red Sea
- TYCOM Indoc
- PTO Course
- GARC
- HELIOS
- Directed Energy

LINES OF OPERATION

DOCTRINE &

TACTICAL

GUIDANCE DEVELOPMENT



OPERATIONAL

SUPPORT









CAPABILITY ASSESSMENTS, EXPERIMENTATION EXPERIMENTATION & REQUIREMENTS

FUTURE OF

SMWDC

Increasing classification and capability to the

nerease multi-warfare, multi-domain reachback

An IAMD WTI aboard every IADC ship and a

Increased LFWAP complexity, joint long range

MWPTS and CV/TSC trainers to improve COIs,

TTP developement, and watchstander training

Provide the Fleet a Surface Warfighting "One-

fires integration, DE, UxS in SWATT

fully-informed level for WARCOM

Transition SWCTC to full execution

Matured SURFRG process

support for the Fleet

San Diego SAP Campus

Fully staffed SWIO team

DH WTI aboard every ship



SMWDC STAND-UP (2015)



Re-established SUWIP process to identify warfighting gaps and solutions



Fleet operational support initiatives



WARFIGHTING

READINESS

TACTICAL

PROFICIENCY

TACTICAL

DEVELOPMENT

Lack of SAP resources limited classification level of tactics development for emerging



Minimal Special Programs Office (SPO) involvement

Established the WTI program





Increased classification certification to the SAP-F level at SMWDC HQ

Coordinated WARCOM conference to encourage integration (WDC) and eross-coordination across warfighting domains

acquisition of near-term solutions to warfighting gaps

Increased Surface Warfare Integration Office (SWIO) WDC Coordination

Implementing vision for Surface Warfare Training Continuum (SWCTC) program



 ${\tt Expansion \ of \ the \ WTI \ program - consolidated \ under \ the \ Surface \ Advanced \ Warfighting \ School \ (SAWS)}$ Expansion of the WTI program - consonnated under the 222 .

Four warfare areas offerings (ASW/SUW, IAMD, AMW, MIW,

SMWDC TODAY

Coordinated WARCOM conference to encourage integration between the Warfare Development Centers

Established SURFRG process to integrate warfighters into the development process to influence the



· 64 WTIs produced/CY 6-10 SWATTs per year with LFWAP, C5I Fast Cruise, OPTASK VI, Information Warfare, real-world threat integration, and expanded TTP testing and experimentation



. Two warfare areas (ASW/SUW, IAMD) Executed four SWATTs per year with LFWAP



Offered courses for AASWO and Sea Combat





Provided fleet guidance through Tactical P4s

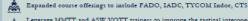
Assumed ownership of the Ship Anti-

Submarine Warfare Readiness Effectiveness Measuring (SHAREM) process and program

Re-established the development of surface

and procedures (TTP)

warfare and surface platform tactics, techniques,



Leverage MMTT and ASW VOTT trainers to improve the tactical interoperability of AASWO and





Refined SMWDC CAS SITE (www.uar.eas.navy.smil.mil/secret/navy/45/site.nsf/Main.html?openPage) into







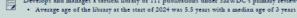
Refined SMWDC CAS SITE (we an interactive, user-friendly site



Responsible for the execution of both SHAREM and Mine Warfare Readiness Effectiveness Measuring (MIREM) process and program Developing concepts of employment for unmanned and manned surface combatant and integrated combat



systems through MS&A through Naval Capabilities Based Assessment Integrated Process (NC Develops and manages a tactical library of 111 publications under SMWDC's primary review authority



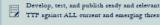
Integral involvement in the development of several multi-domain and multi-warfare capability roadmaps for



Expand SHAREM and MIREM TTP testing and



Execute SURFREM program to meet current and emerging warfighting requirements for SUW



TTP against ALL current and emerging threats Develop future systems and emerging technology capability road maps





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







- 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





- 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)



SMWDC Production Tours

Internal SMWDC Production Tours							
	KW1	KW2	KW3	KW4	KWC	Total	
SAWS	6	6	3	3	5	18	
SAWS-N7	20	15	11	4	0	50	
Fleet Training - Pacific	3	5	2	0	2	10	
Fleet Training - Pacific SWATT Planning Cells	15	8	7	0	0	30	
Fleet Training - Atlantic	1	3	2	0	4	6	
Fleet Training - Atlantic SWATT Planning Cells	13	11	9	0	0	33	
Surface Warfare - Tech Division	1	2	0	0	1	3	
Mine Countermeasure - Tech Division	0	0	0	4	0	4	
Commanders Action Group	3	1	0	0	0	4	
N8/N9	4	3	3	2	0	12	
Det Fallon	0	3	0	0	0	3	
Total	66	57	37	13	12	173	



External Production Tours



External non-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	0	3	
ATG Norfolk	1	1	1	0	3	
EWTG Atlantic	0	0	2	0	2	
EWTG Pacific	0	0	2	0	2	
SCSTC Dahlgren (ATRC School House)	0	6	0	0	6	
SCSTC Fleet ASW (Det Southwest)	2	0	0	0	2	
SCSTC Mayport (Det Southeast)	1	1	0	0	2	
SCSTC Pearl Harbor (MIDPAC)	1	1	0	0	2	
SCSTC Yokosuka (WESTPAC)	1	1	0	0	2	
TACTRAGRULANT	1	1	1	0	3	
TACTRAGRUPAC	1	1	1	0	3	
SWSC	1	1	1	0	3	
SURFDEVRON ONE	1	0	0	0	1	
Nimitz OPINTEL Center DC (Warfare Analysis Center, DC)	1	1	0	0	2	
	26	19	12	0	57	