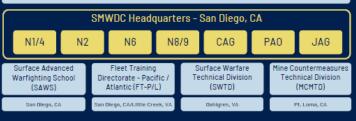


WARFICH ING DEVELOPMENT

**Mission:** To increase the lethality and tactical proficiency of the Surface Force across all domains SMWDC Organizational Structure



WTI PRODUCTION		<ul> <li>Highly trained SWOs who specialize in one of four warfare areas – IAMD, ASW/SUW, AMW, or MIW – and enable SMWDC's LOO</li> </ul>
ADVANCED TACTICAL TRAINING		<ul> <li>Classroom, synthetic, and underway training evolutions for individuals, ships, and staffs to increase lethality and tactical proficiency through tactical reps and sets</li> </ul>
OPERATIONAL SUPPORT	<b>A</b>	<ul> <li>Direct, reachback, mission package, or fly away support provided to ships, squadrons, strike groups, independent deployers, and Commanders</li> </ul>
DOCTRINE & TACTICAL GUIDANCE DEVELOPMENT		<ul> <li>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</li> </ul>
CAPABILITY ASSESSMENTS, EXPERIMENTATIO & REQUIREMENT		<ul> <li>Tactical level warfighting effectiveness assessments; capabilities assessments through the warfare improvement programs</li> </ul>



- 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)



- 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



## 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
- Meyers Scholar Certification



### WTI Program Status Update

- 682 Active Duty WTIs
  - (KW1) ASW/SUW: 291
  - (KW2) IAMD: 217
  - (KW3) AMW: 146
  - (KW4) MIW: 28
- 36 Reserve Unit WTIs
- 2023
  - Goal 115
  - Seated 143, produced 121 WTIs
- **2024** 
  - Goal increased to 135

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



## WTI Training / Pipelines

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



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



- 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



- 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



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





- 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
- Selection board results approved by SMWDC Commander



- If selected:
  - 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

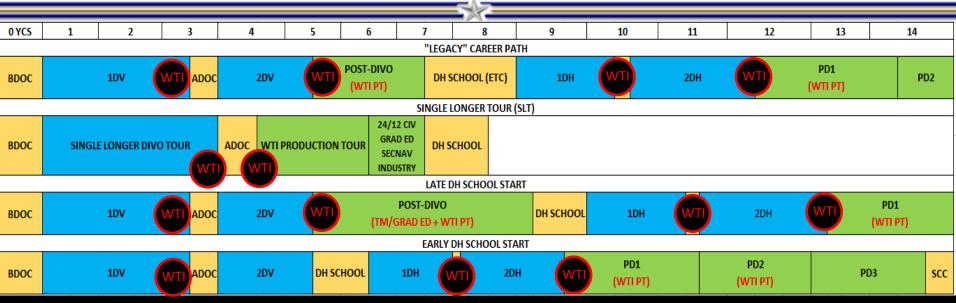


## Selection Board Process (RED CHIP)

- Red Chip
  - WTI candidate selected by Ship's CO
    - (1 per calendar year per CO)
  - No application required
  - 1<sup>st</sup> or 2<sup>nd</sup> 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



## 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



## What's new in the WTI Program

- 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



- 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



## **Contact Info**

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

UNCLASSIFIED



	<b>Mission:</b> To increase the tactical proficie Surface Force a	ncy of the	SMWDC Headque N1/4 N2 N6 Surface Advanced Fleet Training	(SWTD) (MCMTD)		
	ADVANCED TACTICAL TRAINING	OPERATIONAL SUPPORT	DOCTRINE & TACTICAL GUIDANCE DEVELOPMENT	CAPABILITY ASSESSMENTS, EXPERIMENTATION & REQUIREMENTS		
Highly-trained surface warfare officers who specialize in one of four warfare areas - integrated air and missile defense, anti-submatine/anti-surface warfare, amphibious warfare, or mine warfare - and enable SMWDC's lines of operation	Classroom, synthetic, and underway training evolutions for individuals, ships, and staffs to increase lethality and tactical proficiency through tactical reps and sets	hips, and staffs to increase lethality and designed by the state of th		Tactical level warfighting effectiveness assessments; eapabilities assessments through the warfare improvement programs; CONOPS and CONEMPS working groups		
<ul> <li>Produced 121 WTIs in CY 2023         <ul> <li>A5W/SUW - 57</li> <li>IAMD - 31</li> <li>AMW - 25</li> <li>MW - 8</li> </ul> </li> <li>Consolidated four school houses into one at SAWS</li> </ul>	R E C E • Executed six SWATTs in CY 2023 • 3 CSGs • 3 ARGs • Developed and implemented a close quarters maneuvering scenatio • Faciliated or supported 31 Courses of Instruction in CY23 including ISO SWATT, TYCOM Indee, PTO, Submarine Commanders Course, etc.	N T A C C O M P L I S H M E • Supported 12 named exercises • 6 in C7F • 2 in C5F • 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)	<ul> <li>N T S :</li> <li>Updated 20 pubs within the TTP library</li> <li>Completed and published 9 new pubs <ul> <li>2 Tactical Bulletins</li> <li>5 Tactical Memorandums</li> <li>1 Tactical Note</li> <li>1 NTTP</li> </ul> </li> <li>Revised 4 pubs (3 - NTTP, 1 - TM)</li> <li>Cancelled 7 publications due to updates and revisions</li> </ul>	Successfully developed and executed inaugural SURFRG Cycle in FY23 identify tactical priorities and technical solutions to advise terorucing process 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 MIREM6		
<ul> <li>Produce 135 WTI:</li> <li>Sett 80% of COI Capacity</li> <li>One KW2 aboard all AMDC Platforms</li> <li>Fill WTI Production Tours to 80%</li> <li>At least one DH Afloat WTI aboard every ship</li> <li>Revinilization of WTI Communities of Focus</li> <li>WTI Billets at OPNAV N9X</li> <li>WTI Red Chip Program</li> <li>WTI Fleet Outreach</li> <li>IW Integration into WTI COIs</li> </ul>	<ul> <li>Integrate and standardize Information Warfare into SWATT through IWEX events</li> <li>Increase the complexity in presentation for LFWAP</li> <li>Increase HA/EP/DE in SWATT senist</li> <li>Increase joint participation through long-range fires</li> <li>Standardize USV employment</li> <li>Develop and execute an LCS MCM Mission Package SWATT</li> <li>Increase relevance and presentation of cUAS senist</li> <li>Quantify the value of SWATT through PA Cell</li> </ul>	<ul> <li>2 0 2 4 G 0 A L S :</li> <li>Increase analytic capability of SWTD in ASW/SUW mission area</li> <li>Erablish LNO billets with NSW and C5F</li> <li>Expand analytic capability partnerships through contracts with university affiliated research centers and federally funded RkD centers</li> <li>Further capagement with NATO and C6F partners in support of MIWC Battle Staff Certification during BALTOP's and Black Sea operation:</li> <li>Support stand up of C6F MCM CTF (MCMGRU 6)</li> </ul>	<ul> <li>Reduce the average age of the TTP library to under 5 year;</li> <li>Maximize releasability of TTP to partner nations</li> <li>24 publications under creation, revision, or consolidation</li> <li>Refine PAC3 MSE roadmaps SpEIR, NSM, and SEWIP</li> <li>Develop capability roadmaps for SMS IAU, HPM, NSM, ESSM BLKII, PAC3 MSE</li> <li>Support future fight initiatives (NCIP, Virnal Warfare Center), representing surface entroprise operational objectives and tactical priorities</li> </ul>	<ul> <li>Expand SURFRG <ul> <li>Add additional PEOs, industry touch points, resource sponsos</li> <li>Create SURFREM program in collaboration with OPNAV N96</li> <li>Levenge ATLANTIC THUNDER for data collection</li> </ul> </li> <li>Execute Integrated Warfare WIP cycle at the REL FVEY classification level</li> </ul>		
	Tactical	Excellence	e by Design			



ann

SUPPOR	· Warfare Co	doc e Doctrine & Doctrine &	Anced Tical Initid Resessments, Experimentation Requirements
	SMWDC STAND-UP (2015)	SMWDC TODAY	FUTURE OF SMWDC
WARFIGHTING READINESS	Re-established SUWIP process to identify warfighting gaps and solutions Fleet operational support initiatives Lack of SAP resources limited classification level of tactics development for emerging capabilities Minimal Special Programs Office (SPO) involvement	Coordinated WARCOM conference to encourage integration between the Warfare Development Centers (WDC) and cross-coordination across warfighting domains Established SURFRG process to integrate warfighters into the development process to influence the acquisition of near-term solutions to warfighting gaps Implementing vision for Surface Warfare Training Continuum (SWCTC) program 24/7 on-demand reachback cell established to maximize support to ships conducting combat operations in CSF and CGF Increased classification certification to the SAP-F level at SMWDC HQ Increased Surface Warfare Integration Office (SWIO) WDC Coordination	Increasing classification and capability to the fully-informed level for WARCOM Matured SURFRG process Transition SWCTC to full execution Increase multi-warfare, multi-domain reachback support for the Fleet San Diego SAP Campus Fully staffed SWIO team
TACTICAL PROFICIENCY	Established the WTI program • Two warfare areas (ASW/SUW, IAMD) • 6 64 WTIs produced/CY Executed four SWATTs per year with LFWAP Offered courses for AASWO and Sea Combat Commander Provided fleet guidance through Tactical P4s and Fleet Advisories	Expansion of the WTI program - consolidated under the Surface Advanced Warfighting School (SAWS)   Four warfare areas offerings (ASW/SUW, IAMD, AMW, MIW)	An IAMD WTI aboard every IADC thip and a DH WTI aboard every thip Increased LFWAP complexity, joint long range fires integration, DE, UXS in SWATT MWPTS and CV/TSC trainers to improve COIs, TTP developement, and watchstrander training Provide the Fleet a Surface Warfighting "One- Stop Shop"
TACTICAL DEVELOPMENT	Assumed ownership of the Ship Anti- Submarine Warfare Readiness Effectiveness Measuring (SHAREM) process and program Re-established the development of surface warfare and surface platform tactics, techniques, and procedures (TTP)	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 Naral Capabilities Based Assessment Integrated Process (NC         Develops and manages a tactical library of 111 publications under SMWDC's primary review authority         Average age of the library at the start of 2024 was 5.5 years with a median age of 3 years         Integral involvement in the development of several multi-domain and multi-warfare capability roadmaps for shared systems	<ul> <li>Expand SHAREM and MIREM TTP testing and experimentation</li> <li>Execute SURFREM program to meet current and emerging warfighting requirements for SUW</li> <li>Develop, test, and publish ready and relevant TTP against ALL current and emerging threat:</li> <li>Develop future systems and emerging technology capability road maps</li> </ul>



## 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





## KW2- IAMD Curriculum

- 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





- 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						1
	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

23



## **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