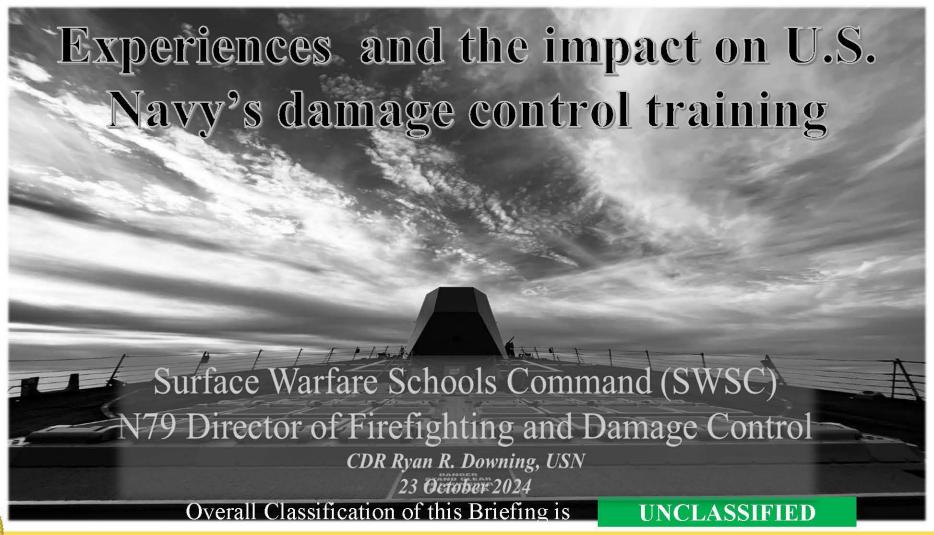
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# Agenda

- N79 Who we are & what is our mission
- Experience shapes how we advance
- Advancing our training
- Elite Firefighting
- Infrastructure modernization
- Strengthening partnerships
- Compete and win





### N79 Mission

"Provide a continuum of professional education and training in support of ship survivability and Chemical, Biological, and Radiological Defense systems requirements that prepares officers and Sailors to fight and win at sea"

-N79 Mission Statement



Aircraft Firefighting Trainer - San Diego, CA





Sailors from USS MOMSEN (DDG 92)



# N79 and worldwide capability

#### Impacting Surface Warfare on a Global Scale

#### Officer Training

MSTP
Warfighting
Engineering
Damage Control





### Enlisted Training

NSS
Engineering
Damage Control



24 Learning Sites and Detachments – 12 Geographically Dispersed Areas  $\sim$  77,000 Sailors (US & International) Annually –  $\sim$ 1,596 Staff



# Experience shapes how we advance

- The Navy has a long history of successfully combatting casualties aboard ships training Sailors matters.
- Every lesson in naval history has also uncovered gaps/seams in our abilities to combat these casualties efficiently and effectively.
- Examples:
  - USS Forrestal Lack of understanding of firefighting agents, combat control, suppression and cooling tactics
  - o USS Ranger Lack of understanding of thermal layering, heat transfer, Backdraft, flashover and vertical access firefighting
  - USS George Washington Lack of understanding of fire dynamics, thermal layering equipment, thermal transfer and control and boundary setting
  - USS Bonhomme Richard Lack of understanding of fire loading, fire movement, control and dynamics, incident command, resource availability, and multi-agency integration



USS FITZGERALD (DDG 62) (Jun 2017)



USS Bonhomme Richard (LHD 6) (July 2020)



USS JOHN S. MCCAIN (DDG 56) (Aug 2017)



# Advancing our training

- Updates to U.S. Navy firefighting and damage control doctrine
  - Align with International Fire Service Training Association/National Fire Protection Association (IFSTA/NFPA) Firefighter I & II courses
  - Leverage and incorporate techniques and procedures used in IFSTA/NFPA courses with our own
- Integrate with Navy F&ES/municipal fire departments
  - Include shore-based commands, federal fire department, and local fire departments in drills/training supporting incident command structure
  - NIMS (National Incident Management System)
- Advanced firefighter school and pipeline training
  - Specifically tailored to the Damage Controlman (DC) rate
  - Introduce advanced fire scenarios such as flashovers, backdraft, and fire prevention (Elite Firefighting Course – 2024)
- Increase level of knowledge and proficiency across the Fleet



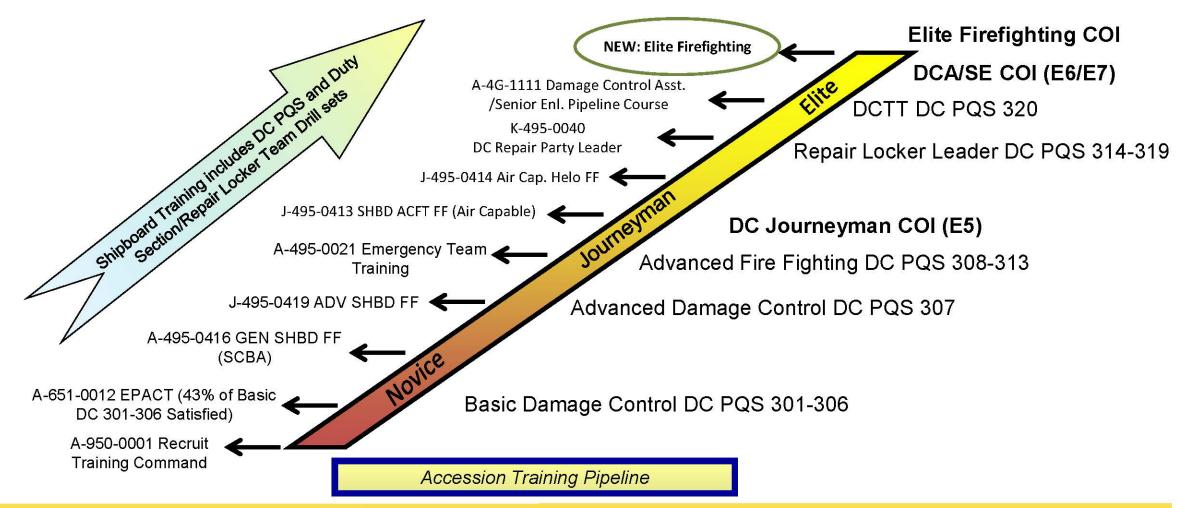
USS MOMSEN (DDG 92) during DC-I (July 2024)



USS MOMSEN (DDG 92) during DC-I (July 2024)



# Advancing the Individual Training Pipeline





# Elite Firefighting

- Introduced a new 2-week Elite Firefighter COI to reinforce the skills necessary to make informed, real-time tactical decisions
  - Tactical approaches
  - Advance fire suppression and extinguishment techniques
  - o Resource availability, Organizational support and capabilities
  - Communication and coordination during firefighting operations and
  - o Incident management.
- Five Modules of instruction
  - Fire Dynamics
  - Hazards of High Heat Spaces
  - Advanced Firefighting Tactics
  - o Forcible Entry and Personnel Rescue
  - National Incident Management System (NIMS) Incident Response Strategy
- Meet the training demands of NAVSEA 8010 compliance and drill requirements
- Manage watchbills in accordance with 8010 guidelines



Elite Firefighting Bangor, Washington



# Investments in Training

- Navy Human Performance Optimization in planning/study
  - Leverage Navy HPO technologies initiatives
  - Learning from civilian firefighter operational stress management
  - USA Warrior Performance Platform (WP2)
- Maximize realism in live-firefighting scenarios
  - Improve and shape the complexity of training events
- Complexity to induce stress and improve performance
  - Stress inoculation testing (SIT)
- Increased survivability
- Data collection
  - Health assessments
  - Performance metrics
  - Improve and optimize performance



USS MOMSEN (DDG 92) BAE Shipyard (2024)



SWSC Farrier Firefighting School (Norfolk, VA)



# Advancing our trainers

- Modernization plan supporting all SWSC trainers (FY-25 to FY-31)
  - o Improve capacity, install additional venues and capabilities
  - Advanced/ complex firefighting in reconfigurable spaces
  - Flashover / rollover
  - Forced entry / breaching / multiple level attack
  - o Cableways / high voltage/weapons / fuels / batteries/chimney fires
  - Ventilation/ uptake fire
  - Industrial environments
- Command and Control:
  - o Industrial environments/multiple agencies response
- Facility Enhancements:
  - High Temperature Fire Liner System
  - o High intensity heat/reconfigurable spaces/multi-story-multi-fire progression
  - Safety monitoring systems
  - o Additional props include a moveable wall system
  - Installed fire suppression systems (water mist)



Firefighting Trainer (Yokosuka, Japan)



Damage Control Wet Trainer (San Diego, CA)



# Advancing our trainers

- By modernizing and improving our training infrastructure we will:
  - Enable Elite Firefighting to be taught at multiple sites
  - Enhanced training techniques employed during Shipboard Firefighting courses
  - Modernize the training structure to achieve a realistic environment, such as:
    - Training in dense smoke or simulated near zero visibility
    - Advanced application techniques
    - Equipment alignment with Fleet use
    - Use of realistic attack methods
  - Sustain the trainer operationally and materially
    - Minimize training gaps & losses
    - Provide opportunity for further advancements



19F1 Firefighting Trainer (Mayport, FL)



19F1 Farrier Firefighting Trainer (Norfolk, VA)



# Strength in partnerships

- Expansion of firefighting training:
  - o Rota, Spain; Sasebo/Atsugi, Japan; Okinawa; Guam
- Joint Forces training abroad:
  - Naval Damage Control conference (UK)
  - Exercise Toxic Fjord (Norway/Bergen)
- Joint Forces training at Norfolk Naval Base, VA:
  - International DCA/SE (Norfolk)
  - Hosted annually
  - Curriculum focus: DC Admin, Stability/Buoyancy, DC Systems, Gas Free Engineering, CBRN-D Procedures
  - o Hands-on training in USN firefighting and wet trainer facilities
  - o Shared experiences: techniques, tactics, and procedures



International DCA/SE Class (Norfolk, VA)



Centro De Adiestramiento Seguridad Interior (Rota, Spain)



# Compete and win

- To compete, we must advance the trainers:
  - o Increase capacity in all Fleet concentration areas
  - o Modernize to ensure sustainability
  - o Modernize to enable flexible scenarios and increase complexity
  - o Develop realistic shipboard scenarios using equipment installed in ships
  - o Decrease trainer outages to ensure optimum throughput and minimize course losses
  - Modernize the trainer to induce flashover, rollovers, backdrafts, forcible entry, lithium battery and compressed gas fires
  - o Improve and heighten safety across all high-risk training
- To win, we must advance the training:
  - o Expand 8010 training and multi-unit/multi-agency integration
  - o Modernize advanced and elite firefighting training
  - o Modernize the training facility to support new tech/equipment
  - o Optimize human performance through HPO initiatives
  - o Continue partnerships in training, sharing experiences, and techniques/procedures



SWSC ELS Pearl Harbor, Hawaii



SWSC ELS Yokosuka, Japan

