### WHO

**SYSCOM:** NAVSEA  
**Sponsoring Program:** PEO-IWS 5A Undersea Systems  
**Transition Target:** Fleet ASW Training Center (FLEASWTRCN), AN/SQQ-89, Advanced Capability Build 23 (ACB-23)  
**TPOC:**  
**Other transition opportunities:** U.S. Navy, Air Force, Army, and Marine Corps Combat Systems Training.

Copyright Tier 1 Performance Solutions, LLC, 2019

---

### WHEN

**Contract Number:** N68335-19-C-0157  
**Ending on:** January 15, 2022

<table>
<thead>
<tr>
<th>Milestone</th>
<th>Risk Level</th>
<th>Measure of Success</th>
<th>Ending TRL</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Develop courses applying task-centered instructional design to the ASW curriculum</td>
<td>Low</td>
<td>New sonar operators will be proficient for duty 50% faster</td>
<td>TRL-6</td>
<td>January 2022</td>
</tr>
<tr>
<td>Develop a performance support tools to assist ASW instructors with the incorporation of innovative methods into courses</td>
<td>Low</td>
<td>Methodology will be adopted into 70% of ASW courses</td>
<td>TRL-6</td>
<td>January 2022</td>
</tr>
</tbody>
</table>

### WHAT

**Operational Need and Improvement:** As submarine threats from adversary countries continue to rise, the U.S. Navy must maintain and expand its anti-submarine warfare (ASW) capabilities. Warfighter readiness is the linchpin of the Navy’s ASW strategy, but the complexity of the ASW domain necessitates time-consuming training, and practical experiences to transfer those skills to the operational environment. An innovative training approach is needed to accelerate mastery and foster transfer of ASW skills.

**Specifications Required:**
1. Achieve mastery faster in a more engaging way
2. Innovative classroom and learning methods, improved learning spaces, interactive video gamification, training sand boxes, and exploration tools such as gaming social learning, simulation, micro learning and different instructional design methods
3. Create effective learning experiences that also motivate learners to achieve superior levels of performance
4. Focus on determining the ideal training tools or approaches matched to the learning task or goal required of ASW personnel

**Technology Developed:** Tier 1’s TARGET solution provides the Navy with task-centered instructional design and innovative learning activities to improve outcomes and engagement. The TARGET also provides faculty with an innovative performance support tool to apply task-centered instructional design to other ASW topics—and throughout Naval schoolhouse training—to achieve high velocity learning and seamless transfer to fleet operations.

**Warfighter Value:**
- Advanced training approach for fleet ASW personnel on the AN/SQQ-89A(V)15 Surface Ship Undersea Warfare Combat System focused on improved instructional design and learning technologies
- Algorithms to recommend instructional methods based on training task, mission task, learning objectives
- A taxonomy structure for the organization of instructional technologies
- Integration of affective context integrated with task-based training to improve learning outcomes through the increase of meaning and purpose for mission tasks

### HOW

**Projected Business Model:** Tier 1’s business model applies science, education, technology, and business know-how in inventive ways to improve the performance of people. Tier 1 has received 40 Phase I, II and III SBIR/STTR awards from the U.S. Air Force, Navy, Army, Missile Defense Agency, Department of Homeland Security, National Science Foundation, and the National Aeronautics and Space Administration. Tier 1’s projects include game-mechanics integrated into critical learning; assessment of knowledge and skills aiding prediction of mission readiness; personalized and adaptive training plans targeted to remediate any gaps; intelligent coaching and performance support; and experiential learning.

**Company Objectives:** Tier 1’s mission is to improve organizations through the performance of people to build a better world. Tier 1 tackles the big challenges, so that more people can do the amazing work they are meant to do. 100% of Tier 1’s government-funded research and development, is leveraged by government clients via a direct Phase III contract, or the technology is leveraged to service Tier 1’s extensive commercial contract base.

**Potential Commercial Applications:** Advanced training concepts developed under Tier 1’s TARGET initiative are directly applicable to many Department of Defense (DoD) Combat training programs and to Tier 1’s extensive commercial client base, which includes leading manufacturing, retail, financial, marketing, academia, service, and logistics organizations.

**Contact:** Rod Ford, Principal Consultant, Director of Research Operations  
*rod.ford@tier1performance.com*  
*(858) 415-1024*