



15 SECONDS

FROM ALARM TO DITCHING

Will **Your** Aircrews
Be Ready? **?**



**BEST-IN-CLASS HUET AND
SEA SURVIVAL TRAINING
FACILITIES FOR MILITARY
APPLICATIONS**

Why Partner With SSTL?

In a word, TRUST.

Trust is the bedrock of ALL relationships. It is not given; it must be earned. It is measured in action driven by knowledge, trust in your training, trust in your crew, trust in your equipment, trust you will get home.

SSTL has spent decades earning the trust of countless aircrews, militaries, governments and contractors. When seconds count and survival is the only acceptable outcome, place *your* trust in SSTL.



Research Driven Training

based on behaviour modification techniques and delivered to thousands of military aviators and oil & gas workers.

Realism

that provides intense environmental effects, including wind, rain, waves and simulators for more than 15 current helicopter fuselages.

Facility Design & Operations

providing a complete package starting with pre-construction consult, building plans, equipment procurement, technology implementation and operational assistance and support.

Train the Trainer

instructor training for all facets of program delivery enabling technology transfer.

Offset Model

that leverages defence contracts to aid funding for in-country facilities.

Mayday!

You are harnessed into your seat in a quickly descending fuselage. Around you is a replica of the aircraft you fly in. Water impact, inversion and flooding. No shock, no panic. You recover from your brace position, locate your exits and egress, as trained. Kicking to the surface, you face 2 meter seas, high wind and rain. You pursue post ditching actions. Dedicated effects and controlled realism brought to you by SSTL.

Are your aircrews ready?

HAZARDS

SURVIVAL ACTION

Impact injury causing drowning

Correct brace position, harness adjustment

Underwater disorientation

Enact procedures to optimize trained response

Breath hold limitation

Emergency air

Disorderly evacuation with entanglement

Discipline to enact procedures with accurate aircraft configuration

68% Survival - Untrained

92% Survival - Trained



Training Facility Design and Consultancy Services

SSTL provides facility and program design and direction for clients to manage risk and minimize loss through intense programs in synthetic environments over, on or under the water. We offer a comprehensive range of training technology products and services, including:



Overall facility design consultation



Designs and plans for specialized pool equipment



Statement of work and vendor selection support



Project management assistance and consultation during the construction (build)



Procurement of facility components and training simulators/equipment) and installation



Train-The-Trainer (T3) programs for military instructors and support staff



Annual Maintenance of key components/training equipment/simulators and recurrent training

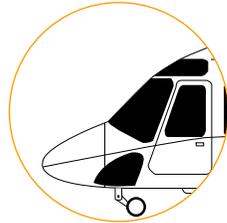




Training Technology Equipment and Simulators

-  Helicopter Underwater Escape Training (HUET) simulators
-  Aircraft specific configuration packages for the above
-  Fast Rescue Craft (FRC) Capsize simulators
-  Overhead monorail or cross gantry lifting (crane) systems
-  Specialized pool equipment (e.g. shallow water platform)
-  Wave generation systems
-  Wind (Fan) generation systems
-  Integrated control systems
-  Environmental Effects package (light, sound, fog, rain)
-  Compressed Air – Emergency Breathing Systems (CA-EBS)
-  Breathing Air Compressor / Cascade system / fill panel
-  Helicopter Rescue Hoist systems





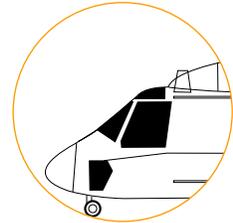
AW139



S92



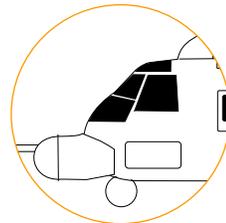
EH101



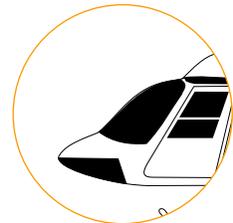
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To imitate reality as closely as possible, quality aircraft ditching training and helicopter emergency escape training takes place in a simulator configured to replicate specific aircraft.

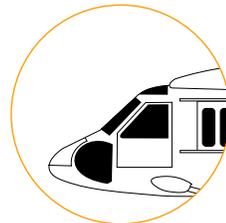
Examples of aircraft configurations include but are not limited to:



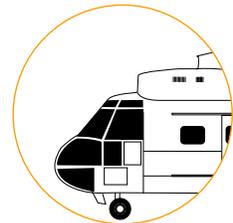
CH 53 Sea Stallion



Bell 206/OH 58, 412



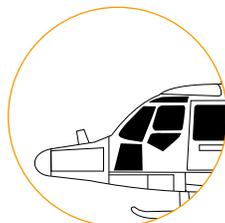
UH 60 Black Hawk



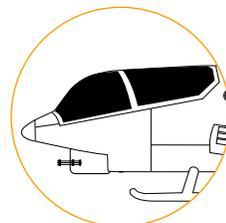
AS 330/332



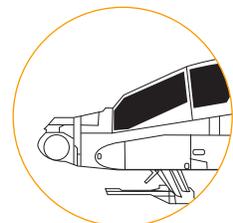
AS 565 Dauphin/Panther



LYNX



AH – 1 Cobra



AH – 64 Apache

Pilots and aircrew will also train with the same equipment used on a daily basis, alongside motivated instructors who possess significant training and operational experience in aircraft ditching procedures, underwater egress and survival. Participants will also learn the fundamentals in marine survival, how to assist others and participate in their rescue.



Training Requirements

Military aircrews risk drowning during ditching events. SSTL understands the Threat and Error Management required to drive survival in this scenario. This capability is solid, and built over long experience, it will manage risk and minimize loss.

Military HUET Training Facility Development

Military HUET training facilities operate at higher levels of training fidelity due to some or all of the following factors:



Military helicopters have more complex internal and external design features due to their mission profiles that require aircraft specific elements to be incorporated into training delivery and simulator design



The mission and/or operational profile of military helicopters can involve operating over water for longer periods of time and in adverse environmental or sea state conditions (e.g. Search And Rescue (SAR), Anti-Submarine Warfare, Special Forces)

**Realistic conditions can create 6' waves,
gale-force winds and rain, thunder and
lightning, fog and darkness**



Colombian Navy (Armada) 2018 / 2019

Under contract to Bell Helicopters as per their offset agreement with the Colombian Ministry of Defence, SSTL is providing training technologies for an aircraft-ditching center in Barranquilla for the Colombian Naval Aviation School, complete with simulators, hoists and environmental effects.





Mexican Navy (Marina) 2017 / 2018

Under contract to the Secretaria de Marina (SEMAR), SSTL provided the Mexican Naval Aviation School in La Paz B.C.S with simulators, hoists, training structures (jumping/hoisting platform and simulated ship's hull). environmental effects (waves, wind, sound, lighting, fog) and Train-the-Trainer programs (HUET, sea survival, parachute drag and drop).



Where We Work

Experience in 21 countries with government, various branches of military organizations, defence contractors, oil and gas operators. SSTL provides realistic, performance based, rotary and fixed wing aircraft ditching and associated programs. These programs have been delivered to Canadian and international aviation clients.

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