

# VSM TRAINING CENTER

## AVAILABLE TRAINING SESSIONS

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Pôle Aéronautique Jean Sarrail – Istres, France  
(near the Air Base 125)

# Table of contents

| SLIDE            | TRAINING MODULES   | NAME OF THE TOOL  | TRAINING LOCATION                        |  |
|------------------|--|---|--|--|
|                  |  |   | VSM Training Center<br>in Istres, France | at the Client's location<br>(sale or rent) |
| <b>3</b>         | <b>SAR mission training</b><br>in a crew configuration: pilot, hoist operator / doorgunner   | <b>ESTHEL Simulator</b><br>Fixed 3m-high Super Puma cabin<br>Left side: physical winching<br>Right side: virtual world on a dome        | X  | X  |
| <b>4</b>         | <b>Multi-mission training on several aircrafts</b><br>Hoisting, sling, down shooting, fast roping, landing assistance<br>on various terrains: desert, mountain, sea, urban area<br>Cougar, NH90, Caracal, Chinook, H145, ... | <b>ESTHEL-VR Simulators</b><br>Perfectly sized platform<br>Virtual world inside VR headsets<br>VR linked to necessary physical elements | X  | X  |
| <b>5</b>         | <b>Specific emergency modules</b><br>Fire extinguishing<br>In-flight medical procedures  | <b>ESTHEL-VR Simulators</b><br>VR linked to necessary physical elements<br>Mixed virtual reality  | X  | X  |
| <b>6</b>         | <b>Aircraft Cargo Loading</b><br>In the same platform, 2 control stations enabling:<br>to drive the machine on the runways<br>to load the cargo of the aircraft  | <b>TACL Simulator</b><br>(Trainer for Aircraft Cargo Loading)<br>Mixed virtual reality  | X  | X  |
| <b>7</b>         | <b>Hands-on Training - Hoisting exercises</b><br>up to 10 meter-high from a cabin representative of H145 aircraft<br>Single lift, double lift, with/without stretcher<br>Simulation of a rock wall                           | <b>SAGOD Trainer</b><br>Transportable system  | X  | X  |
| <b>8 &amp; 9</b> | <b>"Sea survival training"</b> in an indoor wave pool<br>HUET (Helicopter Underwater Escape Training) module,<br>6m-high hoisting, simulation of parachute water landing,<br>Collective survival exercises inside rafts      | <b>HWTC</b><br>(HeliWater Training Center)  | X  |  |

# SAR mission training on simulator

## Ab initio Hoist Operators and Rescuers



**ESTHEL Simulator**



**Crew configuration**



**3m-high winching exercises with an actual hoist**



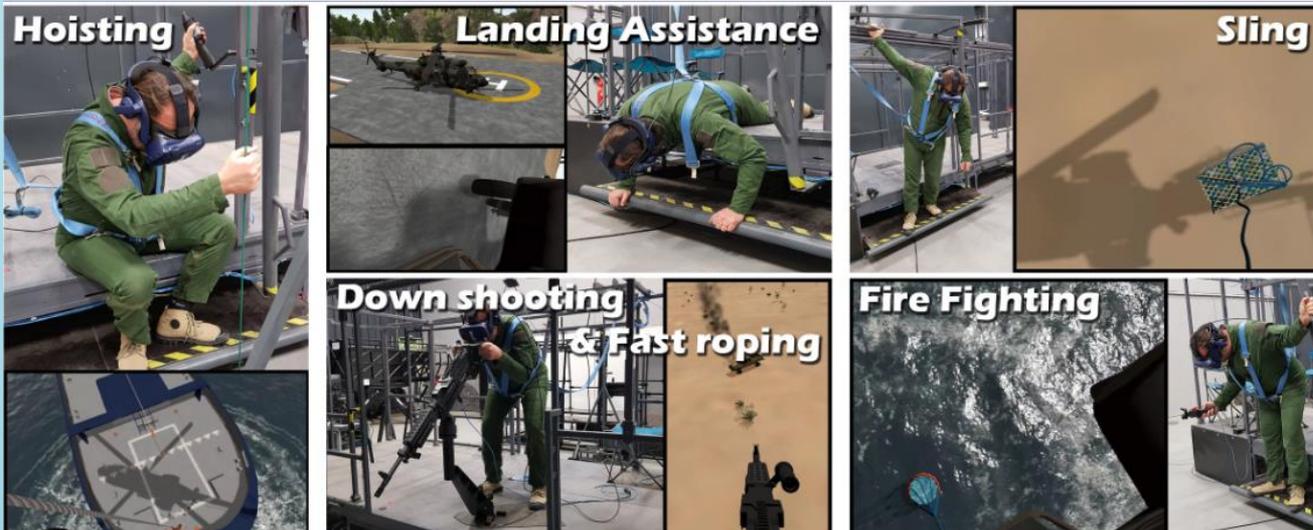
**Super Puma cabin**



**Real equipment including NVG**

# VR multi-mission training on several aircrafts

Hoist operators, loadmasters, door gunners



All kinds of terrains



The virtual 3D world projected in the headset is linked to the physical elements which are necessary for the missions

**Available aircrafts:**  
Cougar, NH90, Caracal, Chinook, H145

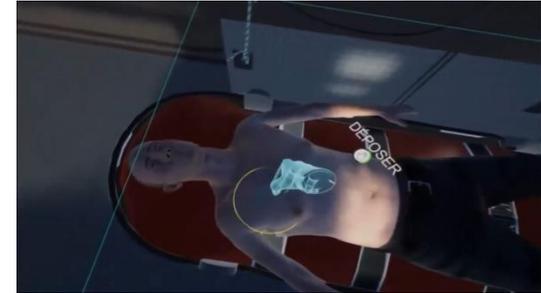
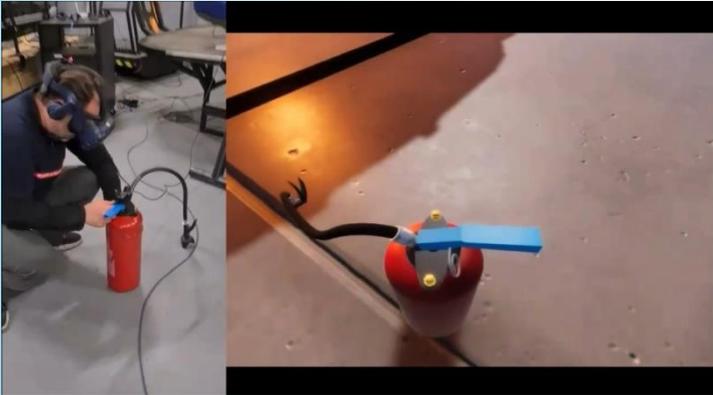
**Soon available:**  
AW139, ..., H160



**World exclusive:**  
The pilot will be in the loop at the same time thanks to a mixed virtual reality helmet.

# Specific emergency modules

## Fire extinguishing / In-flight medical procedures



### Cutting edge technology:

- Virtual reality headsets linked to physical elements,
- Mixed virtual reality

# Aircraft Cargo Loading

## On-the-ground cargo loaders



**Mixed virtual reality**

# Hands-on Training - Hoisting exercises

## Hoist operators, rescuers, divers, doctors, ..., dogs



**SAGOD Trainer**



**Up to 10m high**



**Simulation of a rock wall**



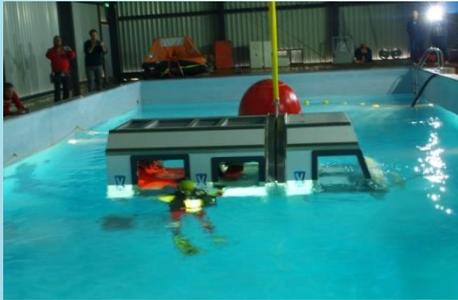
**Accurate representation of the inside of an EC-145 cabin**

# Sea Survival Training (1/2)

## Flying personnel (planes + helicopters)

### HUET Session

(Helicopter Underwater Escape Training)

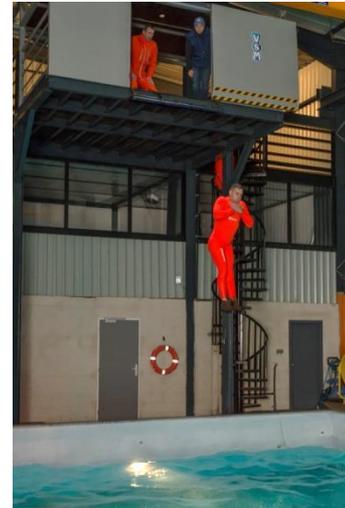


Straight and rotative cabin submersion



Escape from the submerged cabin and then reach the life raft

### Sea survival exercises



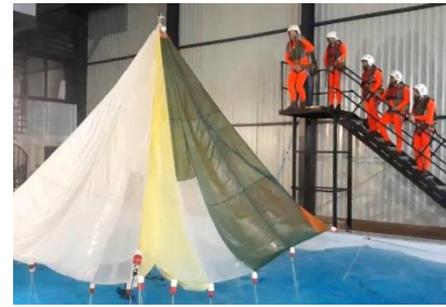
These training sessions are  approved,  referenced, recommended by compliant with IMO resolution A.1079(28), with CAA & EASA CA-EBS cat.A rules and with IMCA SEL 007 rev.2 Recommendations (sept. 2016) for aircraft crews

# Sea Survival Training (2/2)

## Flying personnel (planes + helicopters)

### Hoisting above water or a floating deck

### Simulation of parachute water landing



Procedures before the jump

Harness release / parachute fall



Backstroke under the canopy

Get on the raft

These training sessions are  approved,  referenced, recommended by compliant with IMO resolution A.1079(28), with CAA & EASA CA-EBS cat.A rules and with IMCA SEL 007 rev.2 Recommendations (sept. 2016) for aircraft crews 



# TRAINING SERVICES

*Experience  
simulation-based training*

[www.vsm.fr](http://www.vsm.fr)

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