

# Aviation training



LOM PRAHA provides comprehensive military aviation training including tactical simulation training by means its first class training centre located in Pardubice. Whether you need a flight training from zero experience or a Mi-17 NVG qualification only, that is just an example of broad capabilities of LOM PRAHA training facility. Students can gain their qualifications on Z-142, L-410 or L-39 fixed wing aircraft or Mi-2 and Mi-17 helicopters. In 2012 about 50 US and Afghan aviators successfully passed Mi-17 transition training in LOM PRAHA. The most sophisticated type of training are the tactical simulation courses.

## LOM PRAHA tactical simulation training

Tactical simulation training provided by LOM PRAHA covers training of various tactical situations and skills devoted to tactical air force pilots. Training is provided by means of modern Tactical simulation centre (located at Pardubice Air Force Base) equipped with the latest technologies allowing visualization and perception close to reality.

In comparison to training in a real aircraft, simulation-based training allows for the training of manoeuvres or situations that may be impractical, or even dangerous to perform in the

aircraft, while keeping the pilots in a low-risk environment on the ground. Flight simulation also provides an economic advantage over training in a real aircraft. When fuel, weapons, maintenance, flying hours utilisation, shooting range/area, and insurance costs are taken into account, the operating costs of our simulation centre are substantially lower than the operating costs of a simulated aircraft. For the specific kind of training as BVR or QRA procedures, the operating costs are several times lower for the simulator than for the actual aircraft or its weapons.

Parameters such as aircraft/weapons/radar performance can be modified according to a request of a customer. Controls and cockpit layout for a different type of aircraft can be modified on the basis of agreement.

## Simulation Centre

Tactical Simulation System (TSS) is comprised of necessary equipment, assets and information systems, providing for execution of simulated tactical training to pilots and





ground based control personnel in accordance with customer's requirements.

**Layout**

TSS is comprised of the following work sites:

- 4x Cabin Tactical Simulator (KTS),
- 4x Simplified Tactical Simulator (JTS),
- 2x Ground Controlled Interception (GCI) Simulator,
- 1x Forward Air Controller (FAC) Simulation Station,
- 1x Instructor Operator Station (IOS),
- 2x BRIEFING (BRF) room.

Cockpits are furnished with touch screens on which the cockpit layout is software-projected. This projection is fully sufficient for pilot's orientation and operation of the cockpit and is tailored to needs of tactical (battle) training, Air-to-Air, Ground-to-Air and Air Policing procedures for training of air space policing. HOTAS sticks are identical to those of a relevant aircraft. Currently we operate JAS-39 GRIPEN and L-159 ALCA control sticks. Cockpits can be easily configured according to customer requirements to a different type of aircraft; currently there are 8 pieces of HOTAS for JAS-39 and 4 pieces for L-159 available. To provide for pilot's comfort, the cockpit is equipped with adjustable seats

(up and down movement) and also rudder pedals have the power adjustment.

**Simulation of tactical operations types**

TSS provides for following types of tactical operations:

**COUNTER AIR OPERATIONS**

**Defensive Counter Air (DCA)**

- Active Air Defence
  - Ground or deck alert (QRA)
  - Combat air patrol (CAP) (SUCAP)

**Offensive Counter Air (OCA)**

- Attack Operations (Strike)
- Fighter Sweep
- Suppression of Enemy Air Defence (SEAD)
- Escort
- CAP during OCA

**ANTI-SURFACE FORCE AIR OPERATIONS (ASFAO)**

**ASFAO in a land environment**

- Air Interdiction (AI)
- Close Air Support (CAS)

**ASFAO in a maritime environment**

- Anti-Surface Warfare (ASUW)

**SUPPORTING AIR OPERATIONS**

- Air & Space Reconnaissance et Surveillance (ISR)
  - Tactical (RECCE Pre-post strike)
- Combat Search And Rescue (CSAR)

**Training under tactical conditions**

TSS provides for the following tactical conditions training:

- Beyond Visual Range (BVR),
- Within Visual Range (WVR); within the visualization system range,
- Different Radar Warning Receiver (RWR) capability; utilization of RWR in tactical fight,
- Communication jamming simulation,
- Radar jamming simulation
- Transportable Integrated Data Link System (TIDLS) exploitation,
- Tactical data LINK 16 exploitation (if available),
- Ground Based Air Defence threats handling (SA-6, SA-8, etc.),
- Tactical utilization of LDP (generic navigation and weapon aiming pod) for BVR fight and Air Policing tasks – Different ROE application (Visual ID via LDP)

LOM PRAHA s.p.



Tiskařská 8

100 38 Praha 10

Czech Republic

Phone: +420 296 505 551

Fax: +420 296 505 610

E-mail: marketing@lompraha.cz

www.lompraha.cz

