



**CLV**  
PARDUBICE

**PARDUBICE**

 **FLIGHT TRAINING CENTER**

LOM  PRAHA



**CLV**  
PARDUBICE

*WELCOME TO THE FLIGHT TRAINING CENTER PARDUBICE*

Photography by: Jan Čadil



## FOREWORD



### **Mr. Jaroslav Špaček**

1983 ..... *Air Force College (VVLŠ SNP) Košice, Slovakia*

1987 ..... *Pilot*

2006 ..... *Chief of helicopter aviation General Staff*

2008 ..... *Test pilot LOM PRAHA s.p.*

2009 ..... *Pilot HEMS*

2017 ..... *Director of CLV*

LOM PRAHA Flight Training Center „Centrum leteckého výcviku“ (CLV) Pardubice was established in 2004 with it's main task to provide highly trained and skilled professionals for the Czech Air Force.

It is my privilege and pride to inform you, that since its establishment, the CLV has more than 70,000 Flying Hours (FHs) and has trained hundreds of pilots, flight engineers and maintainers both from the Czech Republic and from abroad. We are precise, systematic and assuring the highest standards of safety, quality and efficiency in everything we do. We are certainly the only one military flight training organization within European Union and NATO environment providing complex training (from Zero-to-Hero) for jet, helicopter and propeller driven aircraft together with a state-of-art tactical simulated training for jet pilots and radar controllers under one roof.

*Jaroslav Špaček*







**Prague Kbely**  
Airframe overhauls  
and modernization

**Prague Kbely Airport**  
Quality control center

**Prague Malešice**  
**LOM PRAHA HQ**  
Dynamic component overhaul site  
**LOM PRAHA TRADE HQ**  
(LOM PRAHA subsidiary)

**Stará Boleslav/Hlavenec**  
Dynamic component  
testing site

**Stará Boleslav**

**Praha**

**PARDUBICE**

**Přerov**

**Přerov airport**  
Airfield, flight training  
and maintenance

**Brno**

**Brno**  
Development and production  
of simulation technologies  
(VR Group – subsidiary of LOM PRAHA)

**CLV**  
**PARDUBICE**

Flight Training Center (CLV) is located at Pardubice airfield (LKPD) in the Czech Republic. The city of Pardubice is the capital city of the Pardubice Region and lies on the river of Elbe some 100 kilometers east of the Czech Republic capital city of Prague.



## THE TRAINING TAKES PLACE AT:

Classrooms

Hangar

Aircrew briefing cell

Weather information and Air Traffic Services (ATS)

Aircrew flight equipment (Aircrew Life Support Equipment) cell

Flight Data Recorders (FDR) interpretation cell

Flight line (Apron)

Mess hall





**LOM PRAHA  
OPERATES ITS  
OWN FLEET:**

**Zlin Z-142C AF /8 Aircraft/**

Single-engine propeller driven two-seat aircraft used for ab-initio training.



Photography by: Jan Čadil



**L-410 Turbolet /2 Aircraft/**

Twin-engine aircraft used for multi-engine aircraft training, personnel transport and paratroopers drop.

**FLEET**

Photography by: Petr Kolmann



## FLEET

### Enstrom 480B-G /4 Helicopters/

Turbine-powered light helicopter with Garmin G1000H full glass cockpit for ab-initio / Initial Entry Rotary Wing (IERW) training.



Photography by: Petr Kolmann



### L-39C Albatros /7 Aircraft/

Light single-engine jet designated for conversion and advanced training; to be phased out 2022.

## FLEET

Photography by: Martin Král



## FLEET

### Mi-17 /6 Helicopters/

Twin-turbine, multi-role medium lift helicopter for conversion and advanced training.



CLV flies aircraft and simulators. All the simulators operated by CLV are a product of the VR Group (VRG) which is a wholly owned subsidiary of the state enterprise LOM PRAHA.

Cockpit Procedures Trainer (CPT) / Part Task Trainer (PTT) is a very effective device for training of new pilots and for refresher training of experienced pilots.

CPT emphasizes what was taught in academic lessons and especially provides for drill of check-list procedures, standard and abnormal (emergency) procedures, Crew Resource Management (CRM) principles.

The cabin of the CPT is designed so that the size and proportions match the interior of a real aircraft as closely as possible. However, given the need to place all the instruments and controls on a single rectangular touch panel, the arrangement of the controls is slightly adjusted.

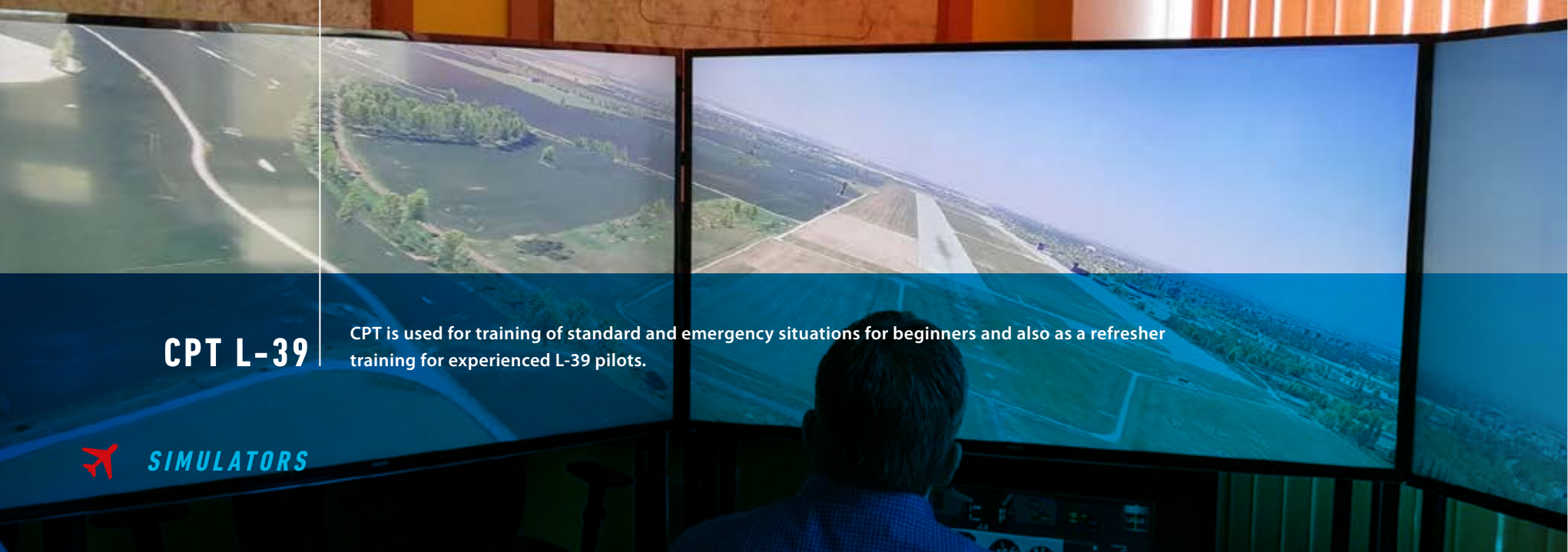
The frame of the cabin structure is made of a rigid welded steel construction to which seat/s is/are attached together with the controls and construction for mounting of screens and displays.

## SIMULATORS



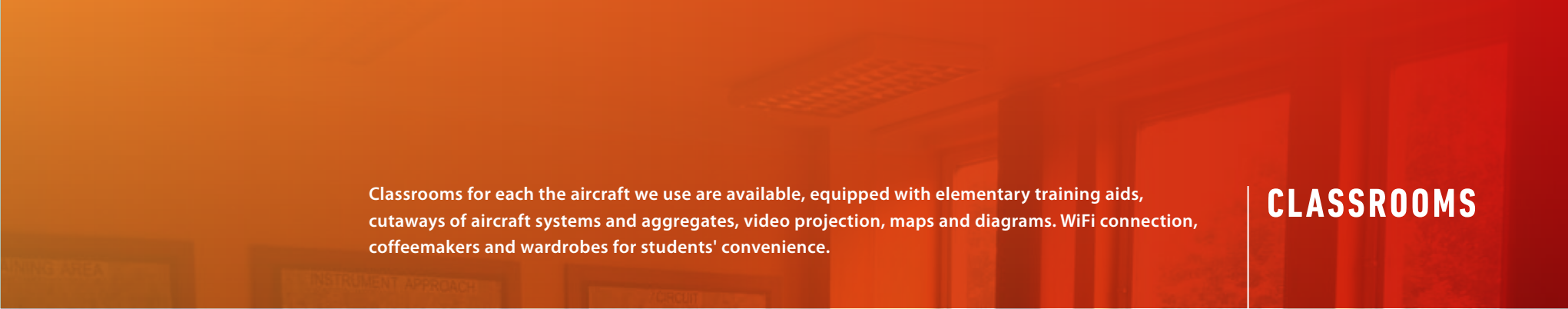


CPT MI-17



CPT L-39

CPT is used for training of standard and emergency situations for beginners and also as a refresher training for experienced L-39 pilots.



Classrooms for each the aircraft we use are available, equipped with elementary training aids, cutaways of aircraft systems and aggregates, video projection, maps and diagrams. WiFi connection, coffeemakers and wardrobes for students' convenience.

**CLASSROOMS**





## FLIGHT TRAINING

### Zlin Z-142C AF

Used for an ab-initio (PPL like) training / Initial Flight Screening Program for absolute beginners.



### *Standard Z-142C AF training contains:*

- › Type training (engine, airframe, instrumentation and more)
- › Procedural training  
(navigation, aerodynamics, regulations and standards, communication, normal and emergency procedures, IFR procedures, mission planning, aviation weather, flying in formations and more)
- › Flying training approx. 45 FHs  
(mastering of take-offs and landings, en-route and navigational flights, aerobatics, IFR)

*NOTE: PPL or rather ATPL theory training graduation shall be documented before entering this training*

### *The Initial Flight Screening training Program*

The Initial Flight Screening training Program is a flying-based assessment of potential pilot candidates. The training program is designed to investigate applicant's suitability for the airborne environment with particular emphasis on suitability for subsequent training as a military pilot especially a jet pilot. Flying takes place 3 to 4 days a week, students fly some 45 FHs.

The flying training syllabus contains but is not limited to: circuit/pattern flights, simple piloting technique/ aircraft handling, emergency procedures, navigation, formation flights, IFR flights, and aerobatics.

## FLIGHT TRAINING



## FLIGHT TRAINING

### L-39C Albatros

Conversion jet training, elementary and follow on advanced training together with training of instructor pilots and refresher training are available.

#### *Standard L-39C Albatros training syllabus contains:*

- › Type training, Procedural training, CPT training, Flying training from approx. 60 to 250 FHs, the number of FHs and tasks to be flown is fully subject to a Customer's requirement
- › Conversion and advanced training:  
VFR/IFR/VMC/IMC/Day/Night flights including aerobatics tasks (Phase II and III)
- › Tactical / limited combat training: Formations, 1v1, A-G, A-A flights (Phase IV)

*NOTE: the number of FHs and the task to be flown fully depend on the Customer and can range from a couple of flying hours of a refresher training for rated L-39 pilots a simple conversion training for pilots flying different type of aircraft or a "Zero-to-Hero" training flying some 90 to more FHs.*

### Enstrom 480B-G /4 Helicopters/

Initial Entry Rotary Wing (IERW) training

## FLIGHT TRAINING

#### *Standard Enstrom 480B-G training syllabus contains:*

- › Type training, Procedural training, Initial Entry Rotary Wing (IERW) training (approx. 160 FHs)
- › Night Vision Device training (NVG), Conversion to full glass cockpit training

Photography by: Petr Kolmann

**FLIGHT TRAINING** 



## FLIGHT TRAINING

### Mi-17 /6 Helicopters/

Conversion training to Mi-17 which is considered an elementary training for flying of Mi-171/24/35 platforms.

*Standard Mi-17 training is composed of:*

- › Type training, Procedural training, CPT training, Full Mission Simulator (FMS) training (tactical simulator available), Flying training ranging from 20 to more FHs, fully subject to the Customer's requirement
- › NVG training (4th generation black and white goggles), Helicopter Underslung Equipment (HUSLE) operations, Instructor Pilot (IP) training including Methods of Instruction (MOI) introduction, Search and Rescue (SAR)
- › Flight Engineer (FE) training

### Mi-17 helicopter maintainers

#### STANDARD TRAINING

*Organizational level (O-Level)/Flight line level training*

- › Airframe (Structure/Fuselage) & Engine Air Force Specialty Code (AFSC) – 4 weeks
- › Avionics AFSC – 5 week training

*Intermediate level (I-Level)/Base (Hangar) level training*

- › Airframe & Engine AFSC only training (no avionics training available) – 3 months

#### O-LEVEL TRAINING

- › Weekly, Pre-flight, Through-flight (between flights/turnaround), Post-flight inspections
- › 25 FHs' scheduled maintenance

#### I-LEVEL TRAINING

- › 50, 100 and 200 FHs scheduled maintenance

#### CUSTOM-BASED TRAINING

Besides the "standard training" CLV provides a "custom-tailored" training, e.g.:

- › Eight-week elementary maintenance training for total beginners (supervision of an experienced qualified maintainer is essential)
- › Eight-week Train-the-Trainer training program for very experienced qualified maintainers (CLV trains a trainer who trains students in their countries)

## FLIGHT TRAINING



## FLIGHT TRAINING

### L-410

Conversion training to a multi-engine aircraft.



#### *Standard L-410 training is composed of:*

Type training, Procedural training, Full Flight Simulator FHs, Flying training fully subject to the Customer's requirement (conversion, refreshment, captain).

### L-39NG

## FLIGHT TRAINING

Brand new L-39NGs are to replace the aging L-39 Charlies soon. First four ships are announced to arrive in LOM PRAHA CLV at the end of 2020/at the beginning of 2021.

#### *L-39NG training program:*

- › Complex training for pilots including
- › Full Mission Simulator
- › O-Level training for maintainers



Photo archive: AERO Vodochody AEROSPACE a.s.

FLIGHT TRAINING 



## TSC/ TACTICAL SIMULATION CENTER



### CLV Tactical Simulation Center (TSC)

Opened at the end of 2011 to provide tactical simulated training for Czech AF pilots and radar controllers. Since the same time providing training also to foreigners.

#### DESIGNED FOR

(Basic aircraft to fly – software and controls available):

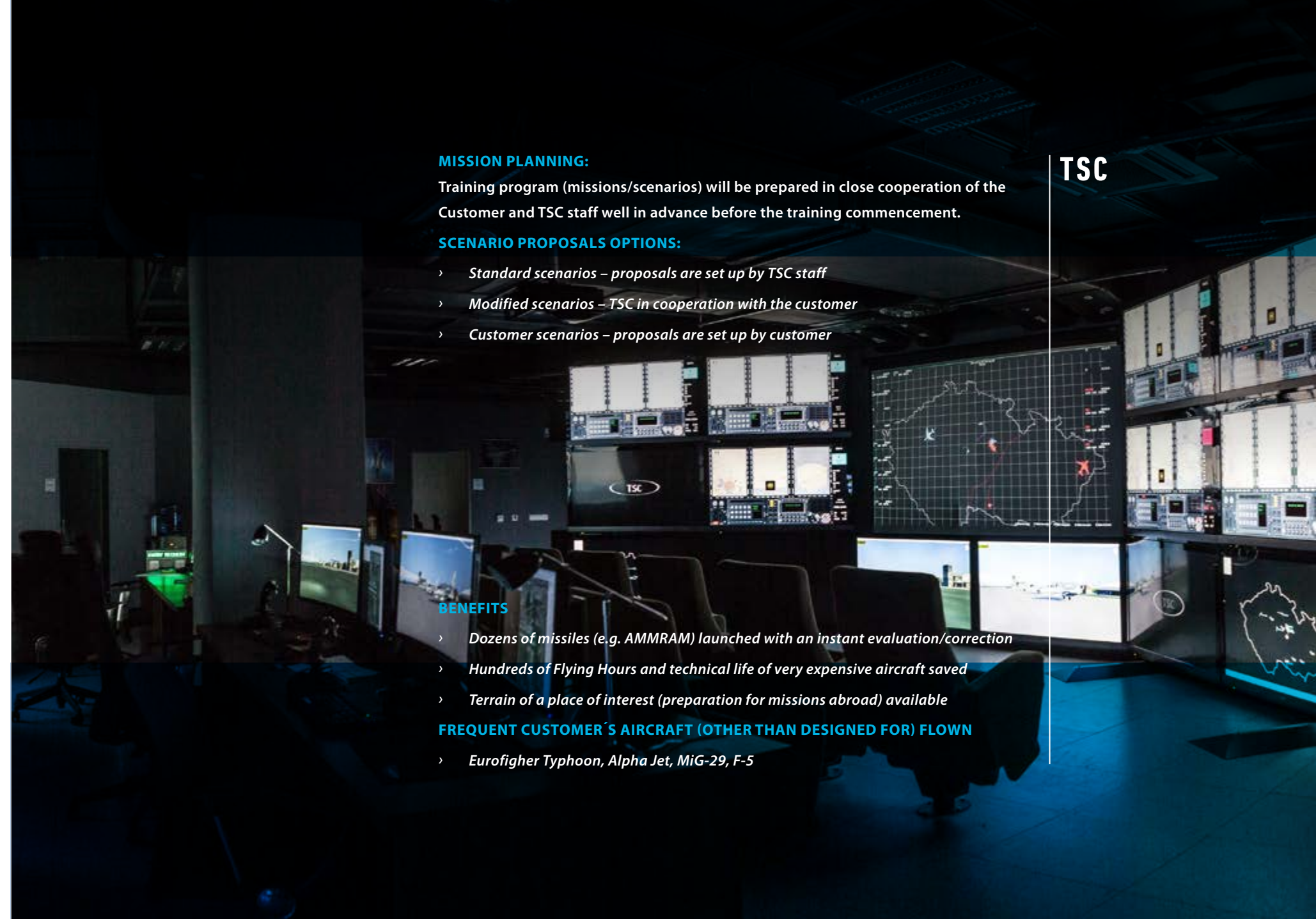
- › *Jas-39 Gripen*
- › *L-159 ALCA*
- › *L-39 Albatros*

#### BASIC LAYOUT:

- › *Eight pilot simulators (four cabins, four simplified devices)*
- › *Four radar controller's (GCI's) simulators*
- › *Two Forward Air Controller's (FAC's) simulators*

#### STANDARD TRAINING:

- › *Defensive Counter Air (DCA)*
- › *Quick Reaction Alert (QRA)*
- › *Offensive Counter Air (OCA)*
- › *Different Tactical Conditions (BVR, WVR, RWR, GBA)*



#### MISSION PLANNING:

Training program (missions/scenarios) will be prepared in close cooperation of the Customer and TSC staff well in advance before the training commencement.

#### SCENARIO PROPOSALS OPTIONS:

- › *Standard scenarios – proposals are set up by TSC staff*
- › *Modified scenarios – TSC in cooperation with the customer*
- › *Customer scenarios – proposals are set up by customer*

#### BENEFITS

- › *Dozens of missiles (e.g. AMMRAM) launched with an instant evaluation/correction*
- › *Hundreds of Flying Hours and technical life of very expensive aircraft saved*
- › *Terrain of a place of interest (preparation for missions abroad) available*

#### FREQUENT CUSTOMER'S AIRCRAFT (OTHER THAN DESIGNED FOR) FLOWN

- › *Eurofighter Typhoon, Alpha Jet, MiG-29, F-5*

TSC





## PILOT CABIN STATION

*Why should CLV be the training organization of your choice?*

- › Established 2004
- › 70,000 + FHs
- › Authorized Training Organization Exposition (TOE)
- › Enstrom 480B-G
- › L-39NG to come soon (2020)
- › Training under one roof can start at your earliest convenience



### *Certificates*

CLV possesses the Czech Military Aviation Authority's (MAA) authorized Training Organization Expositions (TOE) for both the pilots and maintainers. It is to be noticed the MAA is recognized by the American Aviation Engineering Directorate (AED).



# CLV

## PARDUBICE

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Second edition /05/2019/

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