

HATSOFF Helicopter Training Centre

The Helicopter Academy to Train by Simulation of Flying (HATSOFF) is a joint venture of Hindustan Aeronautics Limited (HAL) of India and CAE of Canada. The HATSOFF Helicopter Training Centre will offer a comprehensive turnkey facility for helicopter flight and maintenance training. Beginning in 2010, HATSOFF will offer complete training solutions for the Bell 412, the Eurocopter Dauphin, and both military and civil variants of the HAL-built Dhruv advanced light helicopter.



Types of Training

HATSOFF will offer type conversion and recurrent training that provides aircraft system knowledge, situational awareness of the terrain, effective crew resource interaction in a high-stress environment, and enhanced confidence – all leading to safer flight. In addition, HATSOFF will specialize in providing mission-specific training for civil and military operators, including search and rescue, medical airlift, disaster response, homeland security, offshore operations, geological survey, VIP transport, law enforcement, high-altitude operations, and various military tactical scenarios.

Basic Training

- Air traffic control (ATC) procedures
- Procedural instrument flying
- Cockpit resource management (CRM)
- Basic tactics
- Formation flying
- Low-level flying
- Desert operation
- Night vision goggles (NVG) introduction

Advanced Training

- Advanced CRM
- Advanced emergency procedures
- Formation lead
- Advanced tactics
- Advanced NVG
- Nap-of-earth (NOE) flying
- Weapons training
- Electronic warfare (EW)
- Maritime operation
- Mountain operation
- Anti-submarine warfare (ASW)
- Anti-surface warfare (ASuW)
- Maritime surveillance





Training Technologies at HATSOFF

The HATSOFF Helicopter Training Centre will incorporate the most advanced technologies available for rotary wing aircraft training. The primary components include a full-mission simulator, flight training devices, multimedia classrooms, computer-based training, brief/debrief rooms, courseware, curricula, and training management information system. Our expert instructors will be qualified for the aircraft types and missions they teach, and will undergo regular training to keep their knowledge current.

- Comprehensive curricula and courseware for each aircraft type and mission
- Instructor-led simulation-based classroom (SBC)
- Training management information system
- Multimedia classrooms
- Computer-based training (CBT)
- Level 5-equivalent flight training device (FTD)
- Full-mission simulator (FMS), Level D qualified
- On-board instructor operator station (IOS)
- Off-board tactical operation station (TOS)
- Briefing rooms
- Debriefing room

Training Device Specifications

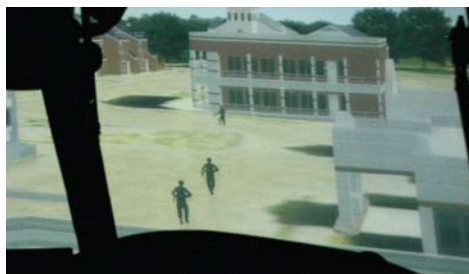
The HATSOFF simulator complex will consist of a “mothership” with a roll-on/roll-off (RORO) platform and four cockpit modules:

- HAL Dhruv (Army/Air Force variant) cockpit module
- HAL Dhruv (Civil variant) cockpit module
- Bell 412 cockpit module
- Eurocopter Dauphin cockpit module

The mothership full-mission simulator encompasses a common platform comprised of:

- Motion system, six degrees-of-freedom
- Vibration platform
- Visual display system, five-channel, 220-degree horizontal by 60-degree vertical field of view, Liquid Crystal on Silicon (LCoS) projectors
- CAE Medallion™-6000 image generator

The flight training device (FTD) will be a “docking station” to which any of the RORO cockpit modules can be attached, effectively converting the module into a Level 5-equivalent FTD. The docking station has its own three-channel 150 x 40 degree visual system. This will enable training on a second helicopter type while the FMS is in use.



For further information, contact:

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