



ITTC
CANADA 



International Tactical Training Centre

Redefining the Training Pipeline

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The International Tactical Training Centre (ITTC) is specifically designed to provide tailor-made training solutions to meet your specific Air Force requirements - on time, on target.


ITTC's proven approach to tactical training has been featured in its flagship programmes Fighter Lead-in Training (FLIT) and Fighter Weapons Instructor Courses (FWIC).

With a focus on the next generation of advanced military training, ITTC provides unique advantages to its customers:

- Advanced fleet of upgraded jet trainers that provide a stable training platform to sharpen student skills while prolonging client fleet life.
- Latest technology in tactical training at the Advanced Aircraft Simulation Centre (AASC), with Mixed Reality (MR) and Virtual Reality (VR).
- Modern, state-of-the-art facilities including: mission planning, a mission theatre for briefing and debriefing, live scenario observation, Air Combat Manoeuvring Instrumentation (ACMI) and associated software.
- Expert team of instructors with experience and leadership skills to train and prepare the next generation of highly effective warfighters.
- Tailored solutions for unique training requirements and flexible programme delivery in Canada, a customer's country or a combination of both. ITTC or client aircraft can be incorporated into training.

Responsive and Innovative Training Experience

Over twenty years of
experience providing
advanced tactical
training to Air Forces
worldwide





Canadian Advantage

ITTC is located in Southwestern Ontario; an area with a rich history of military aviation. Our operational base in London, Ontario has airspace and an agile infrastructure that allows for the development of custom training programmes. While in London for training, students are living in a multicultural city that is welcoming and easily accessible.



ITTC by the Numbers

25

Air Force clients
to date

17

Advanced simulators

50+

Support staff

20+

Courses offered from
the ITTC catalogue

22

Fixed Wing and Rotary Wing
aircraft on fleet

15+

Advanced Tactical Training
courses delivered by ITTC

35+

Contract Instructor network

2500+

Training flight hours per year
and growing

ITTC is continually growing so it can provide its customers with an unparalleled training experience and facilitate the growing portfolio of advanced tactical courses offered.





The Aero Vodochody L-39 Albatros

Equipped with modern avionics featuring colour touchscreens

The Aero Vodochody L-39 Albatros is one of the most widely adopted jet trainers and remains in active service with Air Forces around the world. It is a robust, reliable, proven jet trainer. The ITTC L-39 fleet has been upgraded with a new Avionics Upgrade Programme (AUP) enhancing the quality of tactical flight training.

The Future Fleet

ITTC plans on complementing its fleet of L-39s with new supersonic jet trainers for tactical and adversary training missions to meet the needs of our growing list of customers.



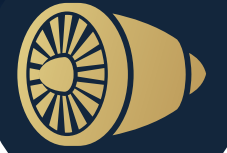
L-39 Fleet Upgrade



Avionics Upgrade



Helmet Mounted Display Support



Powerplant Upgrade

The L-39 AUP will provide 5th Generation surrogate avionics in the established L-39 fleet in use for flight training. The avionics software package is developed entirely in-house, allowing for rapid deployment of upgrades to meet new instructional requirements.

The AUP combines Embedded Tactical Simulation (ETS) capabilities with F-35 type Human Machine Interface (HMI) architecture to increase combat readiness of pilots in the role of Mission Commander, with incoming 5th Gen aircraft and manned-unmanned teaming capabilities. This optimized aircraft utilization can simulate datalink and sensor fusion capabilities.



The AASC is redefining the future of Ground Based Training Systems.



Advanced Aircraft Simulation Centre (AASC)

Modern simulation technology at ITTC reinforces the overall training curriculum through the AASC. As one of the largest combat training simulation centres in the world, it is a technological leader in military and civil flight training, having delivered programmes to both NATO and allied Air Forces. ITTC is leveraging the AASC to augment current course offerings and provide cost-effective offload training solutions to customers.

The AASC is continually expanding, adding new simulators to ensure training is up-to-date and relevant to required training outcomes. Existing simulators and facility capabilities include:

- Four F-16C cockpit simulators
- Four F/A-18E cockpit simulators
- AH-64D simulator
- Flexibility to use F-16C and F/A-18E simulators in 4 high resolution semi-domes
- MR simulation capabilities combining real world and virtual visuals
- VR simulation capabilities
- Ground Control Interceptor (GCI) station
- Mission theatre providing an ideal debrief setting using ACMI technology

Air Combat Simulation

Mixed Reality (MR) Learning

Virtual content blends with physical cockpit visuals for immersive mixed reality simulation. The combination of reality and VR generates unlimited training potential and the ability to incrementally change from a 100% synthetic to a real-world environment. MR allows true spherical awareness during training and specific learning objectives.

- Reduces training costs by supplementing flying time.
- Allows for an immersive training experience that provides the bridge between real-world and virtual environments.
- MR is optimized to give students a high-fidelity integrated system which accurately simulates real-world tactical scenarios in realistic detail.

Real-time Eye Tracking

ITTC students can increase their situational awareness during simulated sorties by reviewing eye tracking data to understand their habits and visual patterns. Instructors can leverage this important data in a debrief setting to evaluate human performance in the cockpit with full transparency.

Large Force Exercises (LFE) Capabilities

The AASC can provide LFE in our various tactical programmes with the ability to utilise unlimited aerial assets.

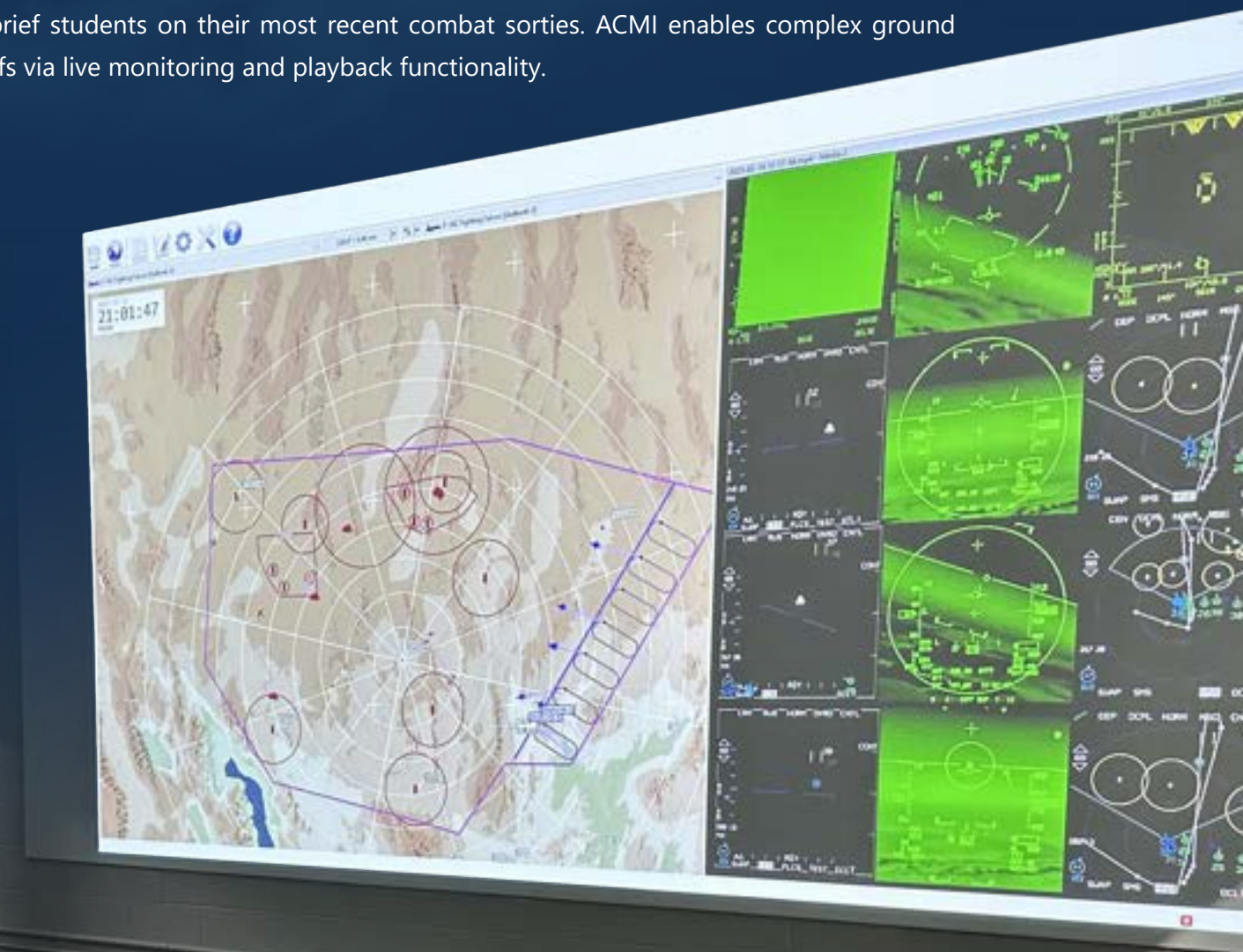
- Students can mission plan, lead and execute a LFE with ease using AASC facilities and technologies.

Air Combat Manoeuvring Instrumentation (ACMI) Mission Theatre

Mission Control Theatre

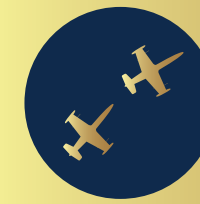
The Mission Control Theatre in the AASC allows monitoring of tactical exercises. Real-time ACMI live viewing and recording of the battlespace and engagements allows a comprehensive debrief.

The mission theatre provides seating for 26 students and instructors and is the ideal setting to debrief students on their most recent combat sorties. ACMI enables complex ground debriefs via live monitoring and playback functionality.





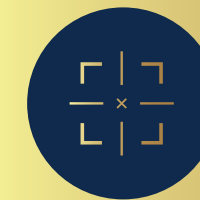
ITTC provides tailored training solutions for each customer's unique requirements. Programmes can take place in Canada, a customer's country or a combination of both.



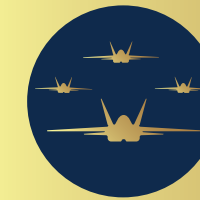
Fighter Weapons Instructor Course (FWIC)



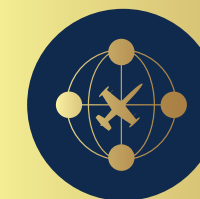
Fighter Lead-In Training (FLIT)



Advanced Jet Training Course



Mission Commander Course



Air Weapons Controller Course



Advanced Airlift Tactical Training (AATT)



Electronic Warfare (EW) Course

Modern Advanced Tactical Training Solutions

Unmanned Aerial Systems (UAS) Course

UAS Operations and Tactics Course

The UAS Operations and Tactics Course offers UAS training for pilots, sensor operators and tactical commanders. Training programmes are supported by unique training tools such as the Manned Remotely Piloted Aircraft (MRPA) which has capabilities comparable to a Medium Altitude Long Endurance (MALE) UAS. This training tool includes a sophisticated intelligence, Surveillance and Reconnaissance (ISR) sensor package. Curricula may be tailored to fit customer requirements for introductory or highly specialized learning such as LFE Training or Combat Search and Rescue training.

Command and Control (C2) Courses

Joint Terminal Attack Controller (JTAC) Course

The JTAC Course trains suitable personnel in the theory and practical skills required to safely direct military aircraft action for close air support and other offensive air operations. This training may include directing fixed wing and rotary wing aircraft in kinetic and non-kinetic environments.



Air Weapons Controller Course

The Air Weapons Controller Course instructs students on the theory and practical application of Air Weapons Control including Close Control and Tactical Control of aircraft. The course is designed to train Air Weapons Controller students to a standard where they can safely and effectively control a basic sortie to an advanced multi-ship mission in air defence operations.

Rotary Wing (RW) Courses

Combat Search and Rescue (CSAR) Course

The CSAR course provides crews with the necessary background knowledge (general and specific) and sufficient exercise and practice in preparation, planning, execution and review of Personnel Recovery operations in hostile environments, both day and night.

Rotary Wing Weapons and Tactics Course

ITTC offers the RW Weapons and Tactics Course to provide a professional background and instruction in the employment of Attack Helicopters and their associated weapons to enhance the combat readiness of Air Forces to achieve the greatest battle capability with the minimum of operational risk.



Maximising Effectiveness and Efficiency Using Innovative Training Solutions

The ITTC Training Ecosystem

ITTC uses a combination of ground school, simulation and live flying sorties to maximise the effectiveness of its training programmes. This integrated ecosystem addresses limitations of legacy training with agile solutions to reduce cost, increase pilot lethality and train pilots more efficiently and faster. The ITTC infrastructure allows training in Canada or a customer's country on their aircraft.

- **Point of Need Training Delivery:** Anytime, anywhere. Students possess the unique advantage of being able to access required learning materials in ways that minimize negative training impacts.
- **Modality Effect:** Our Instructors have the unique ability to transfer knowledge through the use of multiple modes of learning. This includes face-to-face, simulation, virtual, collaborative exercises, self-study and facilitated learning methods.
- **Training Network:** The Courseware & Learning Management System (FSMS) provides a single stop for all instructor and student records with full encryption and security protocols. Students can access the FSMS for all required materials on their student portal.
- **Collective Training:** ITTC has developed its course offerings to maximise focus on multi-force, multi-element mission competencies and capabilities all while ensuring the readiness of the future fighter force.

ITTC has been equipping accomplished pilots with highly specialized tactical training since 2001.

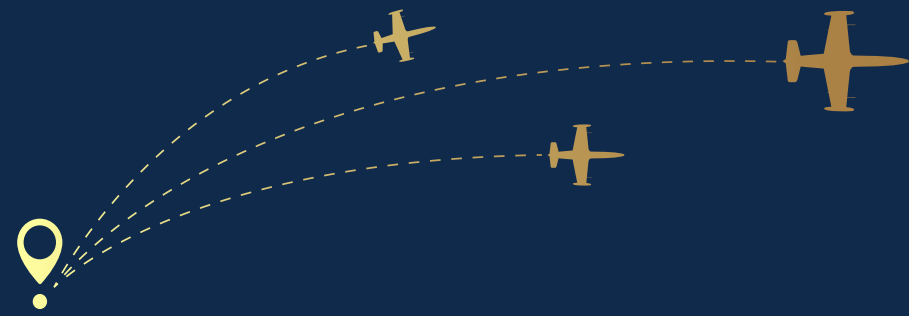


Training Offload: Preparing for the future

Pilots can train more efficiently and at a lower cost by using simulation instead of in-air flying. AASC simulators at ITTC can be customized to provide type and mission-specific flights where students learn basic and advanced battlespace skills before flying. This synthetic atmosphere allows students to master situational awareness and the expected and unexpected outcomes of a mission at a fraction of the cost of live flight hours. This cost-benefit reduces airframe time, upkeep and repair costs and effectively trains pilots at a faster pace.

Training Download: Training pilots faster and more efficiently

As Air Forces look to acquiring 5th Gen aircraft, pilots are trained on lower-cost aircraft using modified training syllabi that allow for the effective download of existing training tasks. These training tools reduce flight hours and maintenance costs while allowing pilots to prepare for future combat aircraft.



Student Care

ITTC prides itself on providing outstanding support for students and their families. Our Student Administrator and Pastoral Care team help students find suitable housing, car rentals, schools for families and medical services. ITTC ensures that students (and their families) are comfortably settled in and students are ready to train.

London International Airport (CYXU)

London International Airport is located 5 nautical miles (9.3 km; 5.8 mi) northeast of the City of London, Ontario, Canada.

In 2022, the airport handled 229,241 passengers and was the 19th busiest in Canada in terms of aircraft movements with 91,103. Multiple North American airlines and air cargo services all fly to London International Airport.

The airport is classified as an airport of entry by NAV Canada and is staffed by the Canada Border Services Agency (CBSA). ITTC has operated at London International Airport since 2001 and currently has the majority of movements at the airport.



A world-class modern training facility in Canada



The Best Training Environment

ITTC is a division of ITPS Canada Ltd.

- Three-pronged learning with ground school, simulation and flying
- Spacious classrooms and modern student-centred training facilities
- Direct access to aircraft and simulators

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