



L3HARRIS™

FAST. FORWARD.

AIRLINE TRAINING
EASA BROCHURE



L3HARRIS

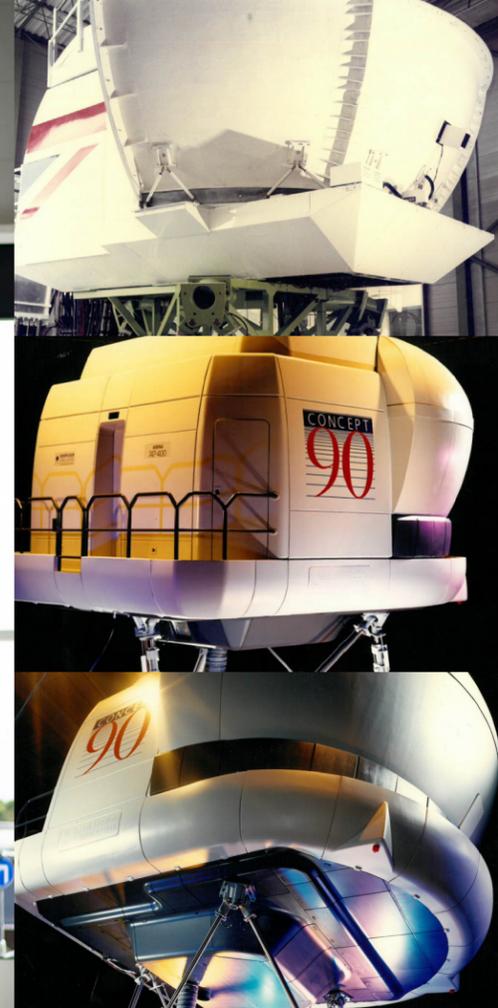


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L3HARRIS

L3Harris Technologies is an agile global aerospace and defense technology innovator, delivering end-to-end solutions that meet customers' needs. Providing advanced defense and commercial technologies across air, land, sea, space and cyber domains, L3Harris has approximately \$18 billion in annual revenue and 48,000 employees, with customers in 130 countries.

OUR VALUES:

- > **We're innovative:** Innovation is in our DNA. We use our experience and insight to look at things from a different angle and aren't afraid to challenge the status quo. Our combined breadth of expertise enables us to lead the market, developing new game-changing technologies and solutions that make the commercial aviation landscape safer.
- > **We're committed:** We are dedicated to the pursuit of safety, quality and service. Working and collaborating with customers, partners and colleagues to build trusted relationships where we always meet and exceed expectations, without fail.
- > **We're agile:** Adopting an agile mindset across the business allows us to react quickly to customer's needs. By anticipating changes and emerging challenges in the market we can leverage our extensive capability to stay ahead of the curve, ensuring the skies are safer than ever before.

OVERVIEW OF AIRLINE TRAINING

THE L3HARRIS DIFFERENCE

Since 2012, L3Harris has unified a collection of companies that can provide something completely unique to the aviation industry: A fully integrated solution for pilot training. We support pilots from the moment they express an interest in the industry through to their professional careers at airlines.

A HISTORY OF TRAINING WORLD-CLASS PILOTS

Today, L3Harris delivers a global training experience, which is personalized to meet the needs of any individual airline. Our world-class training experience is supported by some of the best training technology available, in which L3Harris has over 90 years' experience in design and manufacturing. With training facilities directly connected to our manufacturing facilities, our technology is consistently maintained to first class and industry leading standards.



CADET PILOT TRAINING COURSES AND SERVICES



THE MPL (MULTI-CREW PILOT LICENSE)

The MPL (Multi-Crew Pilot License) course has a focus on training cadets for a specific Airline and Aircraft by making greater use of training systems such as simulators, incorporating competency-based-training and further applying human factors and threat & error management.

The aim of this L3Harris Airline Academy – MPL course is to:

- > Provide an ab-initio cadet with the skills, knowledge and attitudinal competencies to safely, professionally and effectively carry out the assigned duties and responsibilities of a First Officer on a multi-pilot, multi-engine, turbine-powered aircraft in commercial air transportation.
- > Obtain an EASA Part FCL MPL.

The MPL program is versatile, as L3Harris works in tandem with MPL airline partners and associated Regulators to ensure that the course footprint meets all regulatory aspects and produces highly skilled pilots ready to undertake the role of a First Officer. In addition, each bespoke syllabus is based upon specific

competencies, incorporating the airline's culture, fleet, and SOP's from day one. The syllabus automatically includes Type Rating training course as part of the advanced stage, and on successful completion the cadet is qualified to join the airline as a First Officer in order to carry out the base training elements leading to the issue of an MPL License.

The four phases of the dedicated airline MPL program take between 14 and 18 months. This route is shorter than other programs meaning it is a cost-effective solution and brings cadets on to line-flying faster.

The MPL Course is a competency-based training program that complements and further develops the philosophy of vertical integration on which L3Harris' airline pilot training programs have been founded. The regulatory framework of competency-based MPL training enables the constant improvement of the training results by continuous course oversight and management, based on feedback data from the ATO and airline.

From the first day of training to the final line check with the airline, the MPL program strives for a high level of continuity and commitment to identify, measure and develop the competencies integral to the development of the airline pilots.



EASA INTEGRATED AIR TRANSPORT PILOT LICENSE (ATPL)

The L3Harris Airline Academy ATPL program is well proven and established within multiple Regulatory environments. The program is designed to give cadets the optimum use of aircraft and training systems ensuring maximum training value while preparing them for a career in commercial aviation.

By working closely with our partner airlines, we ensure the changing needs of a commercial pilot in today's world are met. We ensure that an Airline's values are ingrained in the cadets throughout their training and seek to customize where at all possible. This route to becoming a pilot aims to provide cadets with the following results:

- > To produce a fully rounded and qualified professional pilot through the monitoring of their professional competence throughout the training process.
- > Highlight and emphasize single engine plane (SEP) and multi engine plane (MEP) transferable skills required in a multi-crew environment.
- > To teach cadets how to safely, effectively and professionally operate single-pilot SEP and MEP aircraft in a commercial air transport environment using L3Harris' SOPs to the standard required for the issue of an EASA Part FCL CPL(A)/IR with ATPL(A) theoretical knowledge.
- > Encourage the development of cadets' personal and professional attributes required of a modern airline pilot, preparing cadets for a seamless transition to the next phase of their career within a commercial airline.

Pilots undertaking the integrated ATPL route are available to airline partners to tag throughout their training based on the hiring airlines' set minimum standards.

BSc (HONS) AVIATION - PILOT PROGRAMME FROM UNIVERSITY OF CENTRAL LANCASHIRE (UCLAN), UNITED KINGDOM

The BSc (Hons) Aviation – Pilot Programme has been designed to prepare trainee pilots for a career as a professional pilot. The programme has been developed between L3Harris and the University of Central Lancashire (UCLan) and is approved by the UK Civil Aviation Authority (CAA) and European Union Aviation Safety Agency (EASA).

Pilot training will follow the Integrated Airline Transport Pilot Licence (ATPL) syllabus and all credits earned during pilot training count towards the final degree. On successful completion of the course, trainee pilots graduate with two professional qualifications, an aviation degree and an ATPL, ready to start their pilot career.





PROFESSIONAL PILOT TRAINING SERVICES



AIRLINE PILOT STANDARD (APS)/ MCC COURSE

L3Harris' industry-leading APS MCC course builds on the experience of the previous phase of training, the airline industry's needs, and the demands of the regulator to deliver an enhanced training experience to support the development of the airline ready professional pilot.

The 14-day APS MCC program equips pilots with the knowledge, skills, and attitudes required to commence initial type rating training to the standards generally required by a Commercial Air Transport (CAT) operator. It includes advanced swept-wing jet aircraft training and airline operations scenario training.

As the course unfolds, pilots will build on their problem solving, decision making, teamwork, and interpersonal skills while gaining greater self-awareness. The enhanced core competencies of situational awareness, capacity management and leadership skills together with the pilot's proven ability to fly, form the foundations of a successful future aviation career.

SUBJECTS COVERED DURING GROUND SCHOOL (25 HOURS)

- > Crew resource management
- > Technical knowledge of the aircraft
- > Standard operating procedures
- > Managing abnormal/non-normal events

SUBJECTS COVERED DURING SIMULATOR TRAINING (40 HOURS)

- > Conducted in simulators (FNPTII) designed and built by L3Harris
- > Operating a commercial aircraft in a dynamic environment

- > Working with all the resources a modern airline pilot has access to in a typical day
- > Challenging the pilot and the crew, to maintain safety at all times



TYPE RATING TRAINING

The aim of the Type Rating Course is to provide ground and flight instruction to a trainee pilot already holding a professional pilot's license.

The Ground Training Phase of the Type Rating Course is designed to give trainees the necessary theoretical knowledge required to progress on to the simulator and flying training phases of the type rating.

In order to provide the most efficient and cost-effective Type Rating training program to airlines, we utilize a range of training technologies including computer-based training (CBT) platforms, fixed based training devices and full-flight simulators.

The course has been constructed to ensure that periods of CBT training are broken up at regular intervals by instructor input and

VFD/FPT training, thus preventing long periods at screens without direction.

Our quality system and the controls we set in place are maintained throughout the type rating program, monitoring trainee's performance at examinations during all training phases.

The simulator phase of each module is delivered on state-of-the-art training devices at an L3Harris Training Center.

We offer a full range of abridged courses catering for pilots with previous jet or type experience, including differences courses and Cross Crew Qualification (CCQ) or Shortened Transition and Rating Training (STAR).

Programs can also be adjusted to exceed the regulatory minimum requirements by

incorporating additional modules for pilots with low-hour experience on jets.

Airline Operator Proficiency Checks (OPC), Low Visibility Operations (LVO) and Extended Twin Operations (ETOPS) training can easily be included in the course structure.

COURSE LOCATION:

- > London Training Center
- > Bangkok Training Center

COMMAND COURSES

The command skills development program is a tailored training program to meet the needs of each airline and specifically designed to ensure the transition to the left-hand seat is seamless. A typical program consists of interactive ground-school modules followed by a series of simulator exercises which reinforce the practical application of skills learned in the classroom. L3Harris' team of course design experts will work with you to create the perfect command course for your organization.

The L3Harris philosophy is to always deliver a tailored program to suit an airline's operational and cultural requirements, which is achieved by working closely with an airline's training department to develop a syllabus that matches specific needs.

From covering leadership and communication to managing the complexities and essential aspects of aviation law, our command skills programs will ensure that your future captains are well prepared for the additional responsibilities that come with the move to the left-hand seat.

The experienced L3Harris Training Management Team can integrate the course within an operator's pre-command preparation to ensure a continuous standard of training delivery.



RECURRENT, REFRESHER & CROSS CREW QUALIFICATION (CCQ) COURSES

L3Harris offers a full range of recurrent, refresher and conversion training courses in line with EASA or your local regulatory requirements.

Due to the diversity of this course type L3Harris offers bespoke training programs built for each individual airline based on the airline's fleet, internal processes, and the pilot's training needs.

Our Operator Conversion Courses (OCC) are made to comply with your airline's Operations Manual Part D to familiarize previously type-rated pilots with your specific procedures and operating environments. Depending on the requirements, this can include a technical refresher with emphasis on airline designated areas of operation, followed by simulator details and checks as appropriate.





TYPE RATING INSTRUCTOR/ SYNTHETIC FLIGHT INSTRUCTOR (TRI/SFI) COURSES

L3Harris provides a range of training to support airlines with their Instructors and Examiners requirements. The Type Rating Instructor/Synthetic Flight Instructor (TRI/SFI) Course is conducted using a mix of classroom and type-specific Full Flight Simulator (FFS) resources taking the candidate through the essential practical exercises of instruction required to qualify for type rating training privileges. It is a demanding and testing exposure for the future TRI/SFI ensuring that the training they deliver is maintained to the highest standard.

L3Harris can support airlines with the following Instructor training courses:

- > Part 1 TRI Teaching and Learning Course
- > Type Rating Instructor/ Synthetic Flight Instructor (TRI/SFI) Course
- > TRI sim to TRI LIFUS Course
- > TRI Sim to TRI Aircraft Course
- > Crew Resource Management Trainer (CRMT) Course

Part 1 TRI Teaching and Learning Course

The course covers all aspects of training skills – it extends beyond the standard syllabus to cover those advanced topics that any airline training department would expect future training staff to experience – including CRM debriefing techniques, analysis of crew behavior (utilizing the Non-Technical Skills framework or the client airline’s own approved behavioral markers framework), report writing and debriefing trainees experiencing difficulties.

Type Rating Instructor/ Synthetic Flight Instructor (TRI/SFI) Courses

L3Harris offers airlines the flexibility to create their own Instructor training program that delivers highly qualified instructors based on the airline’s fleet, internal processes, and other important requirements.

TRI sim to TRI LIFUS

This additional module course is designed to qualify TRI’s for ZFT and initial supervision on the flight line.

TRI Sim to TRI Aircraft

This additional module course is designed to qualify TRI’s to conduct airborne training.

Crew Resource Management Trainer (CRMT) Course

L3Harris offers a 5-day training course designed to meet the specific needs of instructors who will conduct ground school training in CRM.



TYPE RATING INSTRUCTOR TRAINING

Part 1 TRI Teaching and Learning Course

The course covers all aspects of training skills – it extends beyond the standard syllabus to cover advanced topics that any airline training department would expect future training staff to experience – including CRM debriefing techniques, analysis of crew behavior (utilizing the Non-Technical Skills framework or the client airline’s own approved behavioral markers framework), report writing and debriefing ‘difficult’ trainees. It also includes exposure to simulator flying instruction on our generic twin jet simulators providing the ideal training tool for this type of intensive course.

CONTENT

3-day course at our London Training Center. The course covers the following main topic areas:

- > Human Performance and Limitations
- > Training Philosophies
- > Student Evaluation and Testing
- > The Learning Process and the Teaching Process
- > Techniques of Applied Ground Instruction
- > Practical Briefing, Training, Assessment and Debriefing Exercises



TYPE RATING EXAMINER (TRES) STANDARDIZATION COURSE

L3Harris is one of the few organizations to have been approved by the U.K. Civil Aviation Authority to conduct Type Rating Examiner Standardization courses on its behalf.

This course has achieved a world-renowned status in preparing airline instructors for examining duties on behalf of the regulatory authority. Trainees entering this course must satisfy all the training and experience requirements of the appropriate regulatory authority including possession of a current and valid TRI/SFI rating at course commencement.

This course is generic to all aircraft types and focuses on the practical and ethical differences between instructing and examining. It involves practical exercises and scenarios in a simulated environment to enable the TRE/SFE candidate to apply general principles of planning the test scenarios and examining in either a simulator or an aircraft. For these practical exercises, L3Harris uses either the A320 or B737 full flight simulators. A formal test on the final day assesses that the correct proficiency standard has been achieved to progress the candidate through to the later Examiner Assessment of Competence (EAoC) that may be required by your Regulator.

Examiner Refresher Course

The L3Harris Examiner Refresher Course reviews EASA legislation, including EASA basic regulation, changes to legislation and the impact upon examiners. Current U.K. CAA Information Notices are covered including changes to revalidation and renewal procedures.



DRY & WET SIMULATOR LEASE

L3Harris offers both full flight and fixed-base devices for dry and wet lease at each of its global training centers. Our training devices span across the Airbus, Boeing and ATR platforms and are maintained to the highest standard.

L3Harris can support airlines with a range of wet-lease options which include our world-leading instructors and examiners.

Tailored solutions

L3Harris can support airlines with any requirements that cannot be met by our standard courses including bespoke training courses, operational consultancy, and resourcing. Following a consultation process, our expert training team will be able to design a custom solution to support your training which may include:

- > Consultancy for the setup of training courses and training centers
- > Consultancy for the operation of training centers
- > Operation support for flight training operation
- > Contracted support for operations

OUR AIRLINE TRAINING LOCATIONS



LONDON TRAINING CENTER

The London Training Center is a new state-of-the-art purpose-built pilot training and simulator production facility based in close proximity to London Gatwick Airport. It is a global center of excellence, providing the airline industry with the highest quality of training service and environment.

The London Training Center hosts a range of the latest innovative flight training technologies, including RealitySeven Full Flight Simulators for A320, A330, and 737NG variants, fixed-based simulators, and flat-panel trainers; briefing rooms and classrooms.

TRAINING DEVICES

FSTD APPROVAL NUMBER	AIRCRAFT MODEL	AIRCRAFT STANDARD	DEVICE
JT-661	A320-200	Std 2.0	Full Flight Simulator
CT-599	A320-200	Std 1.7	Full Flight Simulator
CT-639	B737-800	SFP	Full Flight Simulator
CT-641	A320-200	Std 1.9	Full Flight Simulator
CT-647	A320-200	Std 2.0	Full Flight Simulator
CT-648	B737-800	SFP	Full Flight Simulator
CT-649	A330-200	Std 2.6	Full Flight Simulator
CT-954/CT-142	B737-800	SFP	FTD1 & FNPT II/MCC
CT-955/CT-143	A320-200	Std 2.0	FTD2 & FNPT II/MCC
N/A	A320-200	N/A	Flat Panel Trainer
N/A	A320/A330	N/A	Flat Panel Trainer
N/A	B737-800	N/A	Flat Panel Trainer

In addition to our devices, the London Training Center has space for an additional 13 full-flight simulators plus supporting training devices, including flat-panel trainers and fixed based simulators. The facility offers state-of-the-art classrooms, to fully support the airline industry’s growing training requirements.

STATE-OF-THE-ART CLASSROOMS AND BRIEFING ROOMS

Our facilities offer the latest classroom/ briefing room technologies, including interactive smartboards, TV screens, table charge points, and Instructor de-brief stations.

RESTAURANT – THE BEEHIVE

Named after the original London Gatwick Airport terminal, the Beehive restaurant is both a great place to refuel between training or to take a moment to relax with some refreshments.

Open during breakfast and lunch hours; the Beehive restaurant offers trainees various options, including a daily selection of hot meals & specials, sandwiches, soups, barista coffee, toasties, salad bar, snacks, and confectionery.

PILOTS LOUNGE

We understand that your pilots need somewhere to relax, catch up on some emails, and grab some refreshments in order to remain energized and ready to complete their training. Our Pilot’s Lounge has been designed with this in mind and offers the following benefits:

- > Comfortable seating areas
- > Work stations
- > Vending machines
- > Complimentary hot drinks machine
- > Microwave



BANGKOK TRAINING CENTER

Our Bangkok Training Center houses a broad range of Flight Simulation Training Devices (FSTDs) qualified by the European Aviation Safety Agency (EASA).

Our Level D ATR42/72 simulators are qualified by EASA for four aircraft versions and have been additionally qualified by many further regional authorities, including Australia, Bangladesh, Bhutan, Botswana, Cambodia, China, India, Laos, Malaysia, Myanmar, Nepal, New Zealand, Oman, Pakistan, Philippines, Papua New Guinea, Rumania, South Africa, Tanzania, Thailand, United Arab Emirates and Vietnam.

This modern training center has a computer-based training (CBT) room equipped with 20 workstations and an electronic library. There are multiple classrooms and debriefing rooms, mock-ups for ATR Classic, ATR 72-600, A320, and A330. There are also three customer lounges available with complementary refreshments. A customer internet facility and photocopier is also available.

TRAINING DEVICES

AIRCRAFT MODEL	AIRCRAFT STANDARD	DEVICE
ATR42/72-200/300/500	Various options	Full Flight Simulator
ATR72-600	Std 2.1 & Std 3	Full Flight Simulator
ATR72-600	Std 2.1 & Std 3	Full Flight Simulator
A330-200	Std 2.4	Full Flight Simulator
A320-200	Std 1.7.1	Full Flight Simulator
A320-200	Std 1.8	Full Flight Simulator
A320-200	Std 1.9	Full Flight Simulator



OUR AIRLINE ACADEMY LOCATIONS



33 AIRCRAFT

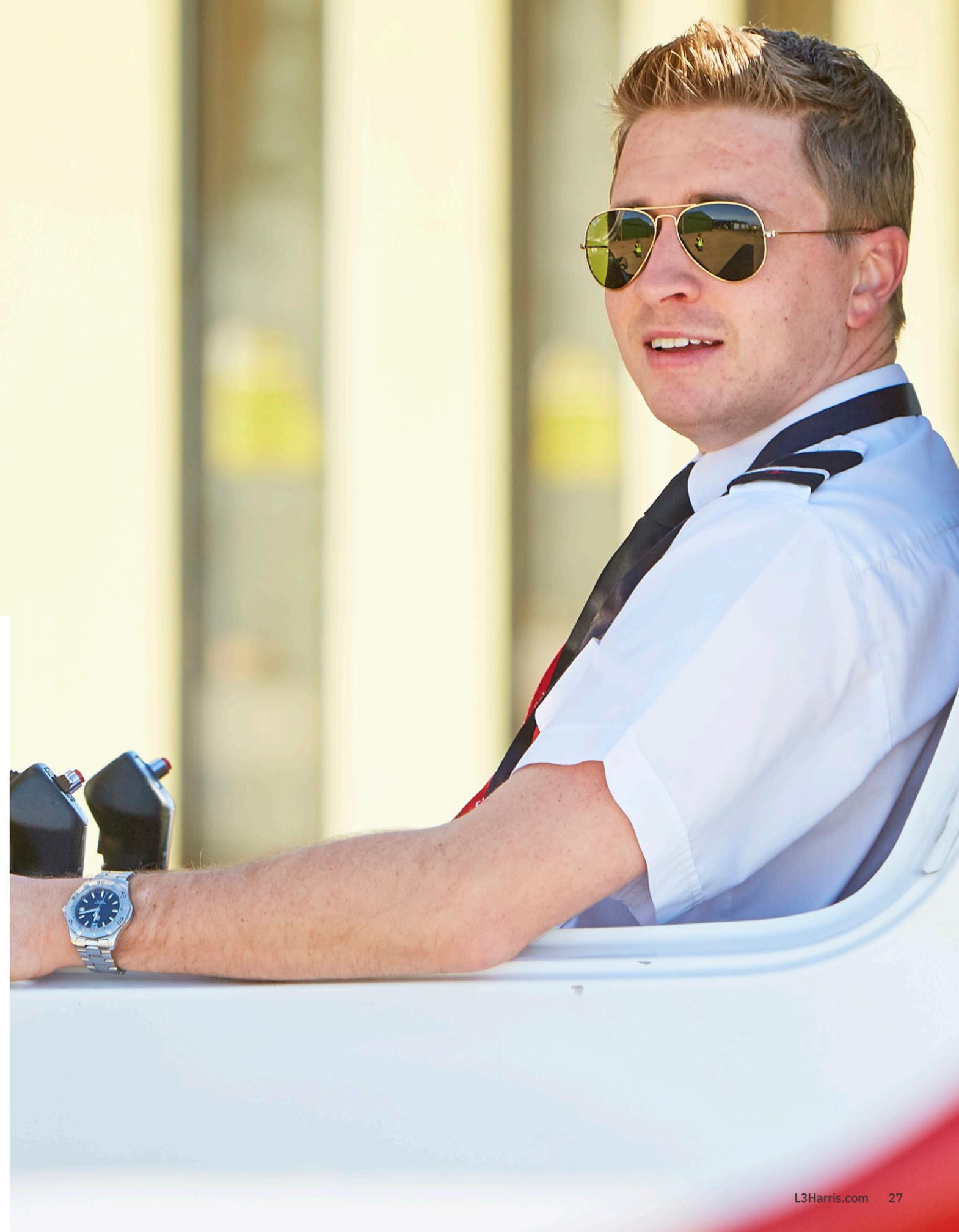
UK AIRLINE ACADEMY

Training in the UK will take place at a number of different locations, including the L3Harris Cranfield Airline Academy and the L3Harris London Training Center.

Opened in 2019, the London Training Center is a world-class purpose-built training facility of which includes an 150,000 sq ft training and production center currently housing full-flight simulators, fixed-base simulator devices and flat panel trainers, providing airlines and cadets the required technologies to best support their training. The site includes a suite of specialist computer-based training (CBT) classrooms, briefing rooms, a restaurant, self-study zones, and comprehensive engineering support.

Cadets will complete ground school and simulator training phases alongside experienced airline pilots maximizing their exposure to the industry, preparing them for their airline career.

Opened in July 2019, the new Cranfield academy contains state-of-the-art facilities, providing the highest quality of advanced pilot training. Based next to Cranfield University, renowned for its aeronautical research and development, the L3Harris Cranfield airline academy holds prime location on the airports main taxiway and has access to the digital control tower.





90 AIRCRAFT

U.S. FLIGHT ACADEMY

The L3Harris U.S. Flight Academy is located at the Orlando Sanford International Airport in the heart of beautiful Central Florida. Minutes away from beaches, theme parks and other attractions, the Sanford campus is ready to be your home away from home. With sublime weather for a majority of the year, the location allows our pilots to maximize their time in the sky.

Our aircraft fleet consists of over a 90 airplanes, including:

Single Engine:

- > Cirrus SR20
- > Cessna 172
- > Piper Archer

Multi-engine:

- > Piper Seminole
- > Diamond DA42

The Orlando Sanford International Airport is located in Class C airspace and has an FAA control tower on airport property, along with four runways. The main runway being 11,000 X 150 ft. The U.S. Academy Operations Building consists of offices, a dispatch center, pre-flight planning areas, flight briefing areas, weather service computers and phones, student services offices, and our Sky Shop that carries all books and supplies required for Cadets attending the Academy.

The Academy site also includes a Learning Resource Center where cadets are able to find a Certified Flight Instructor available for free tutoring every day of the school week. It is also utilized for individual group study, hands on learning and access to many other study resources. We also have a Study Hall available for students wishing to study in a quiet environment.



INSTRUCTORS

L3Harris flight instructors are selected based on their extensive prior instructional experience and commercial aviation background and are further trained as per Part FCL to meet the standards of the training program which are standardized annually. Included are senior instructors that sit on multiple EASA and ICAO working groups and committees to ensure that we have direct involvement in shaping the future of the industry within Europe and globally.

Our ground school instructors have extensive experience in delivering all elements of pilot training to a diverse range of cadets which is adaptable based on cadets differing learning abilities and varied standards of English language proficiency. The instructors come from varying backgrounds but are commonly either ex-military aviators, engineers or have extensive commercial airline experience.

To maintain a high level of learning, L3Harris understands the importance of providing cadets with a robust support network which includes offering pastoral support to all cadets during their training at the L3Harris Airline Academy.

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Airline Training EASA Brochure

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L3Harris Technologies is an agile global aerospace and defense technology innovator, delivering end-to-end solutions that meet customers' mission-critical needs. The company provides advanced defense and commercial technologies across air, land, sea, space and cyber domains.

