



ASI

AIR & SPACE
INSTITUTE



An education that
knows no bounds



TABLE OF CONTENTS

- 04 About the ASI® Mission
- 06 Our Industry Supporters
- 08 Pathways Overview
- 12 Airbus ACT for Academy
- 13 New Facilities
- 14 Flying Training
- 16 Civil Enrichment Timeline
- 18 Further Education Pathways
- 26 Military & Defence at ASI®
- 30 Military Enrichment Timeline
- 32 Student Stories
- 34 Higher Education Pathways
- 39 Student Journey

ABOUT THE ASI MISSION

World class training for the air and space industry

ASI (Newark) is an international centre of excellence to train people to enter the air and space industry.

Our training has clear progression routes into the workplace from Level 2 through to degree-level with jump-off gateways into several aviation roles.

The Institute operates in partnership with industry giants like the RAF to fill job roles for pilots, engineers and ground crew in airlines, the military, airports and logistics companies in the UK and abroad.

For the first time education and training programmes have been co-designed by the air and space industry using the job roles as the blueprint for the qualifications.

Our education and training is delivered by industry experts with years of flying and aircraft engineering experience in the air and space sector.

Industry-standard facilities

Working with Newark and Sherwood District Council, ASI has secured a £15.4m investment to build the ASI HQ in the Town.

FOR THE FIRST
TIME EDUCATION
AND TRAINING
PROGRAMMES HAVE
BEEN CO-DESIGNED
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SPACE INDUSTRY USING
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BLUEPRINT FOR THE
QUALIFICATIONS.

OUR INDUSTRY SUPPORTERS

Royal Air Force Careers

A career in the RAF is about discovering your natural talent and working out together what makes you valuable, productive and happy.



Working with partners, the required industry and regulatory elements are built into pathways that are delivered in the ASI.



ASI Newark is under development. All course information is subject to validation and change.

Join the Royal Air Force and you will get much more than just a job – you'll have opportunities that no other employer can hope to match. From worldwide travels to lifelong friendships, life in the RAF is a unique experience.

The RAF offers a wide range of careers that ASI can prepare you for, including Pilot, AeroSystems Engineer, Aircraft Technician and Aircrew.





PATHWAYS OVERVIEW

What are my prospects in the industry?

Our students, who successfully progress through our training programmes, have the opportunity to enter an exciting career in the UK and around the world.

'Long-term demand for newly qualified aviation personnel remains strong, as 649,000 new pilots, 690,000 new maintenance technicians and 938,000 new cabin crew members will be needed to fly and maintain the global commercial fleet over the next 20 years.' – Boeing Pilot and Technician Outlook 2023-2042

And because our students have been through ASI training and spent a significant amount of time with major employers, students may be at the front of the queue for employment.

RAF prospects

PAY & BENEFITS

The RAF typically offers bonuses and benefits ranging from subsidised living to gym memberships and discounts.

CAREER PROGRESSION

There are plenty of opportunities for development throughout a career in the RAF.

TRAINING AND DEVELOPMENT

We train everyone to the highest standards in order to gain invaluable skills and qualifications.



Sponsorship & Apprenticeships

Our industry supporters may hire our graduates as apprentices and full time employees.

This means students are uniquely placed to gain access to our fantastic network of employers through the unique enrichment opportunities available as part of our programmes.

ASI Newark is under development. All course information is subject to validation and change.





Industry forecasts job roles

Number of Pilots Globally +

763,000

Jan. 2022 - 2029

Number of Engineers & Technicians Globally +

739,000

Jan. 2022 - 2029

Number of Ground & Cabin Crew Globally +

903,000

Jan. 2022 - 2029



OUR PATHWAYS

There are a number of training pathways to choose from:

Aircraft Engineer

Leading to options including aircraft line mechanic, aircraft technician, design engineer, licensed engineer, aerodynamics engineer and propulsion engineer

Pilot

Leading to options including commercial, private, helicopter, RPAS as well as other aviation-related fields

Space

Leading to space roles including satellite technician, spacecraft technician, launch vehicle technician, mission planner, communication engineer, cyberspace communications specialist



Ground

Leading to aviation ground roles including aircraft dispatcher, air traffic controller, baggage handler and ramp agent, air and space operations specialist, mover (logistics), communications infrastructure technician

Software Engineer

Leading to software engineering roles including simulation engineer, systems engineer, technical support engineer, software architect, avionics technician, cyberspace communications specialist

Travel & Cabin Crew

Leading to options including cabin crew, travel agent, tour guide, aviation security officer, airport operations officer, customer service operative, air & ground steward



AIRBUS ACT FOR ACADEMY



Airbus has signed its first agreement in the United Kingdom for its maintenance training solution 'Airbus Competence Training (ACT) for Academy', with Air & Space Institute Newark.

The agreement demonstrates the role that Airbus, as a leading aircraft manufacturer, is playing in ensuring closer links between the academic world and the aviation industry.

'ACT for Academy' is a maintenance training software solution from Airbus Training Services that introduces students to the latest Airbus aircraft technology and maintenance procedures, in a classroom environment. The solution helps to prepare young aerospace students for a career in the aviation industry, equipping them with the necessary skills.

'ACT for Academy', which complements the training currently available in the curricula of ASI Newark programmes, is an operationally oriented, scenario-based tool focused on a 'learning by doing' approach. It includes:

3D virtual Airbus aircraft, including virtual cockpit, virtual engines and a walk-around trainer;

Scenario-driven exercises to perform typical aircraft systems' maintenance tasks;

General familiarisation on Airbus aircraft courseware to present and explain the aircraft and its systems.

By working on real case scenarios, students not only gain first-hand knowledge and expertise, they also become more 'operational ready', hence more attractive for future employers.

With the UK forecast to see the highest rate of growth in the aviation sector, 'ACT for Academy' will no doubt be a key component in the training of the next generation of aviation professionals.



AIRBUS A318

Airbus A318 Lands at the Air and Space Institute Newark

The Airbus will be the focal point of ASI's world-class training facility – giving students and apprentices access to an unrivalled engineering, flight, groundcrew and cabin crew training environment.

The cutting-edge educational resource will be converted to an exact replica of an Airbus 320 Neo cockpit by ASI partner Flight Director.

Mark Locking, Principal and CEO of the Lincoln College Group said: "The striking arrival symbolises our commitment to providing students with unparalleled hands-on experiences and pathways to rewarding careers in aviation."

We are soaring to new heights of innovation and knowledge. ASI will offer immersive, hands-on experiences that are second to none and is poised to become a hub for nurturing the aviation leaders of tomorrow."

Scan to read more



From September 2024 students will receive their aviation training at the state-of-the-art facility equipped with industry-designed simulation suites, CAD & VR Rooms.

FLYING TRAINING AT ASI

Take Flight at ASI

As a dedicated partner, local businessman Stewart Davies will help fund Private Pilot Licence (PPL) certifications for Further Education students at ASI up to their first solo flight. This remarkable and generous gesture means that students will have financial help and the opportunity to strive to achieve their PPL Solo flight without the financial burden of private pilot training. With this new reimbursement scheme of £1,000 per student* this gives students more flight time to practice their skills and secure their licence!

*Funds will be awarded to a student when they have committed to their PPL training and secured their solo wings.



Find out more

Our Further and Higher Education programmes provide an opportunity for students to gain their UK Private Pilot Licence (PPL) or Light Aircraft Pilot Licence (LAPL), alongside their academic studies; the balance of practical and theoretical skill is highly sought-after by global aviation industry employers.

Beginning with their placement at a local CAA-approved Declared Training Organisation (DTO), we support students throughout the entire flying training process. Our own flying instructors and subject matter experts (SMEs) are by their side, offering direction and guidance, at all stages of their journey... Solo flight often happens quicker than you might think!

Further information regarding the PPL and LAPL courses can be found on our website.



<https://asi-newark.co.uk/ppl>





CIVIL ENRICHMENT TIMELINE

The curriculum for the ASI Civil is packed with enrichment activities ranging from expert guest speakers from our industry partners, to exciting visits to industry workplaces, along with sporting, leadership and team skills activities. Below is just a flavour of the programme.

COMMERCIAL
AIRLINE
PILOT GUEST
SPEAKER AND
PRESENTATION

AIR TRAINING
EXPERIENCE FLIGHTS

INDUSTRY
PARTNER VISITS
AND TALKS

SEP

OCT

NOV

DEC

JAN

MATRICULATION

EAST MIDLANDS
AIRPORT VISIT

NCS - BESPOKE
PROGRAMME AND
ACTIVITY WEEKEND

ROLLS ROYCE
ENGINE/HERITAGE
CENTRE VISIT

NATIONAL SPACE
CENTRE VISIT

FEB

MAR

APR

MAY

JUN

HUMBERSIDE
AIRPORT VISIT

LINCS & NOTTS
AIR AMBULANCE

NEWARK
AIR MUSEUM
VISIT

FURTHER EDUCATION PATHWAYS



Further Education Courses

Our Further Education pathway provides Level 2 and Level 3 technical qualifications for prospective pilots, air and space engineers and ground crew.

The specialist Level 3 qualifications are broadly equivalent to 2-3 A Levels and provide enough UCAS points to progress onto our ASI (Newark) Higher Education programmes. These courses have been developed with Nottingham Trent University (NTU) to provide Level 6 top-up degrees upon completion of your chosen HNC and HND as part of ASI Newark. Learn more about our Higher Education degree courses on page 35. From September 2024, we will be delivering a new A Level offering in Physics, Chemistry and Maths.

All of our Level 2 and 3 enriching qualifications have been designed in partnership with aviation industry experts and they have been reverse-engineered from specific job roles. This means all of the units within our courses give you the exact knowledge, skills and competencies to be effective in these job roles.

Common curriculum for all pathways

For the first part of Year 1, students on all Level 3 pathways will study a common curriculum designed to familiarise learners with the aviation industry as a whole.

Employers and industry experts have told us that they need staff that understand and appreciate the knowledge skills and competencies of a range of job roles across aviation.

This level of broad understanding will make our graduates more effective in their careers when they progress.

All ASI Newark students will also complete the National Citizen Service (NCS).

Designed especially for 16 and 17-year-olds, the NCS experience will give you a clearer idea of what you want from your future.

It is designed to unite and empower young people, building your confidence so you can go out there and achieve your dreams, no matter where you're from or what your background is.

You'll spend a week in the autumn mixing with a new crowd and taking on fresh challenges together. Before you know it, you'll be rooting for each other, as you all tackle your own little hurdles.

Common Curriculum



Introduction to Aviation	Aviation Operations
Airline Operation Structure	Aircraft Manoeuvring
Aircraft Security	Health and Safety
Applied Aviation Maths	Aircraft Inspection Procedures
Self-Identity (Confidence) Self-development and Awareness	Aviation Environmental Sustainability
Applied Aviation physics	Line and Base environment
Radio Telephony	Air Law
Air Traffic Control overview	Aircraft Engine running Procedures
Trouble Shooting/Problem Solving Techniques	Aviation Career Plan

National Citizen Service



Communication/Body Language	Leadership and Teamwork
Situational Awareness	Problem Solving and Decision Making
Monitoring and Cross Checking	Task Sharing
Dealing with pressure	Assessing Problems
Leadership and management	

After completing the Common Curriculum our students are streamed into their pathways for the rest of their time at ASI Newark.



ASI Newark is under development. All course information is subject to validation and change.



PILOT & AVIATION OPERATIONS PATHWAY

The Pilot Pathway will focus on the theoretical knowledge required for a career as a pilot in commercial or military aviation.

Students will gain a broad understanding of aviation by studying a BTEC Level 3 Extended Diploma in Aviation Operations, including; the UK aviation industry, health & safety, security, inter-relationships, aviation geography, airline and airport economics and the environmental impacts of aviation.

Throughout the course, students will enhance their use and understanding of English, mathematics and physics as applied within aviation. Students will develop the knowledge and confidence to progress to acquire the skills to become commercial or military pilots.

Pilot & Aviation Operations +

Qualification

- o BTEC Level 3 Extended Diploma in Aviation Operations

Competencies

- o Theoretical knowledge
- o People skills
- o Practical/Industry skills

Employment Gateway

- o Flight School Pilot Training/Aviation Ground Roles

PROGRESSION

After students have graduated they can progress onto the ASI Newark Higher Education programmes which include;

Level 4 HNC International Travel and Tourism Management

Level 5 HND International Travel and Tourism Management (Aviation)

Level 6 Top-Up degree delivered by Nottingham Trent University (NTU)**

AIRCRAFT ENGINEERING PATHWAY

The City & Guilds Level 3 Diploma in Aircraft Maintenance course will be focusing on aircraft engineering theory and practical training including subjects such as theory of flight, line and base aircraft engineering, CAA Part 145 maintenance procedures, CAA Part 66 Procedures, aircraft jet engine ground running procedures, human factors within aviation, civil legislation in aviation, aviation mathematics and science for technicians, fundamentals of electronics and avionics systems.

It will also develop your practical hand skills using specialist aircraft tooling and virtual reality (VR) simulation to carry out maintenance on aircraft systems and structures.

The course is designed to enable the student to gain the required theory qualifications and practical experience to become an Aircraft Fitter/Technician assisting in carrying out routine maintenance on Jet aircraft and leading to a CAA Part 66 A1 Aircraft maintenance licence*

Engineer +

Qualification

- o City & Guilds Civil Aircraft Mechanical (2675-05)

Competencies

- o Theoretical knowledge
- o People skills
- o Practical/Industry skills

Employment Gateway

- o Aircraft Fitter/Technician

PROGRESSION

Other options would include progression onto the ASI Newark Higher Education programmes which include;

Level 4 HNC Aeronautical Engineering for England (HTQ) *subject to validation on the HNC/HND Aero course

Level 5 HND Aeronautical Engineering for England (HTQ) *subject to validation on the HNC/HND Aero course

Level 6 Top-Up degree delivered by Nottingham Trent University (NTU)**

*Merit or higher required in all C&G Modules and 3 years experience required as per CAA Part 66A.30 Basic experience requirements to gain CAA A1 Part 66 AML.

**Subject to validation

SPACE AND ENGINEERING PATHWAY

This exciting new programme is for learners who are intending to work in the aviation, aerospace and engineering sectors.

You will study specific 'space' units which could include Applications of Space Technology, Exploring Space, The Moon Our Nearest Neighbour, Planetary Landscapes and Life on Mars.

In addition, several engineering units will prepare you for your next steps and these may include Working in Engineering, Principles of Manufacturing Technology and Maintenance of Mechanical Devices and Equipment.

There will also be a number of enrichment opportunities where you will partake in exciting trips and visits as well as hear from exciting guest speakers from the industry.

Entry Requirements:

You will need to have a minimum of 3 GCSEs, including English Language and/or Mathematics at Grade 4 or above (an approved Science-based subject is preferable for progression).

On completion of Level 2, you must have attained GCSE Grade 4 or higher in both Maths and English Language to progress to an ASI L3 programme.

Ideally, you will have already achieved this prior to commencing your studies, however, applications will be considered if you have achieved GCSE Grade 4 in either Maths or English Language and are willing to study either English Language or Maths alongside your Level 2 curriculum.

You will be required to attend a Welcome Day event (this includes a practical activity and interview) and provide a reference (from an employer or recent school/college report).



Space & Engineering



Qualification	<ul style="list-style-type: none"> Level 2 Diploma in Space and Engineering
Competencies	<ul style="list-style-type: none"> Theoretical knowledge People skills Practical/Industry skills
Employment Gateway	<ul style="list-style-type: none"> Aircraft Mechanic/Space Technician
Academic Progression	<ul style="list-style-type: none"> Entry to Level 3 Diploma/ Extended Diploma in the following ASI courses: Pilot & Aviation Operations and Engineering.

TRAVEL & TOURISM

Travel and Tourism at ASI offers two programmes across Level 2 and 3 designed to prepare students for a career in the aviation industry. The aviation industry is a rapidly growing and exciting sector, and there are many different job opportunities available.

The course will cover a wide range of topics related to aviation and travel and tourism, including: the aviation industry, its structure, history and future, different types of airlines and aircraft, airport operations, customer service in aviation, selling and promoting travel products, travel and tourism marketing.

The course will also cover specific topics related to aviation travel and tourism, such as: air fares and ticketing, baggage handling, passenger safety and security, travel documentation and foreign exchange.

Travel & Tourism +

Qualification	<ul style="list-style-type: none"> ○ NCFE Level 2 Certificate in Travel and Tourism ○ NCFE Level 3 Extended Diploma in Travel and Tourism: Aviation
Competencies	<ul style="list-style-type: none"> ○ Theoretical knowledge ○ People skills ○ Practical/Industry skills
Employment Gateway	<ul style="list-style-type: none"> ○ Aviation Ground Roles including Cabin Crew and Travel Specialist

PROGRESSION

After students have graduated they can progress onto the ASI Newark Higher Education programmes which include;

Level 4 HNC International Travel and Tourism Management

Level 5 HND International Travel and Tourism Management (Aviation)

Level 6 Top-Up degree delivered by Nottingham Trent University (NTU)**

SOFTWARE ENGINEER

The Level 3 Software Engineering Programme is designed to prepare students for a career in the aviation, aerospace, space and defence sectors.

The course will cover a wide range of topics in software engineering, including:

- Software development methodologies
- Programming languages
- Software design and testing
- Software engineering principles and practices
- Software security and safety

Graduates from this course will be in high demand from employers in the aviation, aerospace, space and defence sectors. They can expect to work on a variety of projects, such as developing software for aircraft, spacecraft, and satellites.

Engineer +

Qualification	<ul style="list-style-type: none"> ○ City & Guilds Civil Aircraft Mechanical (2675-05)
Competencies	<ul style="list-style-type: none"> ○ Theoretical knowledge ○ People skills ○ Practical/Industry skills
Employment Gateway	<ul style="list-style-type: none"> ○ Aircraft Fitter/Technician
Academic Progression	<ul style="list-style-type: none"> ○ Level 4 HNC Aeronautical Engineering for England (HTQ) *subject to validation on the HNC/HND Aero course ○ Level 5 HND Aeronautical Engineering for England (HTQ) *subject to validation on the HNC/HND Aero course ○ Level 6 Top-Up degree delivered by Nottingham Trent University (NTU)**

A LEVELS

Air and Space Institute A Levels in Chemistry, Physics & Maths

This innovative and thrilling academic pathway presents students with the opportunity to study A Levels in Chemistry, Physics, and Maths, complemented by ASI's enriching aviation talks and visits.

These experiences are specifically designed to equip students for a successful career in the dynamic aerospace and space sectors. With these industries experiencing rapid growth, there are numerous exciting and challenging prospects awaiting graduates.

The aerospace and space sectors are expanding at an astounding pace, providing exceptional career opportunities for graduates. Those who complete this course can anticipate earning competitive salaries and engaging with cutting-edge technologies.

If you are passionate about science and engineering and aspire to make a significant impact on the world, then this course is tailored for you.

A Levels



Qualification

- A Levels

Competencies

- Theoretical knowledge
- People skills
- Practical/Industry skills

Employment Gateway

- Aerospace engineer, astronaut, avionics engineer, control systems engineer, flight test engineer, mechanical engineer, spacecraft engineer and systems engineer.

Academic Progression

- Graduates from this course will be well-qualified to progress to undergraduate degrees in Aerospace Engineering, Astronautics, and related subjects. They will also be eligible for a range of apprenticeships and other graduate training schemes in the aerospace and space sectors.



MILITARY & DEFENCE AT ASI

ASI Military & Defence provides employer-led, career focused education and technical training for 16 to 19 year olds.

Our employer supporters will work closely with us to provide this unique and innovative model, which is designed to create secure career paths in the RAF, aerospace and defence industries.



ASI MILITARY & DEFENCE

We work in partnership with The Royal Air Force and a raft of top aerospace industry firms to provide this unique training model.

The UK's first Air & Defence College, which was created by Lincoln College in close partnership with the RAF and the wider aerospace industry, was officially opened at Lincoln College by Air Vice-Marshal Andrew Turner in September 2016.

In September 2022, we rebranded to form part of ASI, whilst still delivering the same exceptional military and defence content. Our carefully designed study programmes, which have been shaped by our industry partners, offer a unique blend of academic education and technical training, infused with an additional focus on physical training, leadership, communication and team building.

Our students get involved with industry-set projects, co-designed by employers, equipping them to enter their career of choice, ahead of the game and ready to progress.

Students spend a significant proportion of time experiencing industry environments first-hand through an extensive programme of work experience. Industry experts join tutors at College to pass on their knowledge and expertise.

Core academic study areas like Maths, English and Science are contextualised to the specialism of the ASI Military & Defence and digital skills development are a major priority.

Our ASI Military & Defence offers:

UNIQUE

access to RAF and aerospace working environments and expertise

THE BEST

professional technical training in the region

GUARANTEED

places on RAF Basic Recruit Training for graduates who will be well equipped to pass first time

EXCITING

adventure training and a residential visit developed by the RAF

CAREER-READY

students with the technical qualifications, confidence and leadership skills to succeed

ONCE IN A LIFETIME

experiences for top performing students with aircraft flights

Specialisms:

- Engineering
- Cyberspace communications specialist
- Air & space operations

Our ASI Military & Defence programme is an amazing opportunity to pursue a career with the RAF, or the wider aerospace industry. It enables students to complete their core academic studies, alongside full time technical training, creating a clear pathway to an exciting, rewarding future.

The RAF, and our industry support partners, have helped shape the ASI Military & Defence curriculum with a blend of technical skills, a personal development programme and sector specific job-ready skills.

That means graduates can leave the College with the right qualifications and the fitness levels, confidence, leadership and communication skills to succeed.

Graduates are guaranteed a place on RAF Basic Recruit Training (subject to RAF entry criteria) and should be well equipped to pass first time. If students decide not to enter the RAF, they can progress to employment, an apprenticeship or further study for a career in the aerospace industry.

POSSIBLE CAREER OPTIONS



- o Mechanical Engineering Technician
- o Avionics Engineering Technician
- o General Engineering Technician
- o Vehicle Engineering Technician
- o Cyberspace Communication Specialist
- o Avionics Technician

COURSE INFORMATION



- o Programme includes employability skills (attitudinal goals) and/or GCSEs in English and Maths (dependent upon existing qualifications)
- o Approximately 34 hours per week in College/employer-setting
- o A blend of practical and theory with a range of assessment methods
- o A minimum of 3 hours per week of physical training to develop physical fitness
- o Progression to Level 3, employment or an apprenticeship





MILITARY ENRICHMENT TIMELINE

The curriculum for the ASI Military & Defence is packed with enrichment activities ranging from expert guest speakers from our industry partners, to exciting visits to RAF bases and industry workplaces, along with residential visits and adventure training. Below is just a flavour of the programme.



MENTOR VISITS

RESIDENTIAL
- ADVENTURE
TRAINING BRECON
BEACONS

STATION VISIT -
RAF WADDINGTON

FURTHER
EDUCATION
GRADUATION

VISIT -
INDUSTRY
PARTNERS

FEB

MAR

APR

MAY

JUN

STEM - ACTIVITY

STATION VISIT -
RAF CRANWELL

STATION VISIT -
RAF HALTON

STUDENT SUCCESS STORIES

The Air and Space Institute is where dreams take flight. The sky is just the beginning! Discover the endless possibilities at ASI and get inspired through our student case studies.

Our Further Education students are embarking on exciting journeys towards their dream careers - ASI is the launching pad to unlock their limitless potential.

KRYSTIAN SKRZYPCZAC – PILOT & AVIATION OPERATIONS (CIVIL)

Krystian started his journey with us on the Level 3 Pilot & Aviation Operations Pathway. At the start of his second year at ASI, Krystian aimed to secure a job within Commercial Aviation. Over the summer of 2022, Krystian completed work experience at East Midlands Airport to help enhance his CV and provide an insight into airport operations and roles.

Since graduating Krystian has successfully landed a position as a dispatcher with Swissport at East Midlands airport (EMA) – they provide ground services and efficiently manage an air cargo warehouse at EMA. Krystian and his classmate Lexi also won the Quiet Tiger Aviation Award.

Capt Chris Hives, Director Quiet Tiger | "Their engaging personas, enthusiastic attitude and enquiring minds made their time with the Quiet Tiger Aviation Ltd team an absolute pleasure for all."

Krystian Skrzypczac | "There are a lot of opportunities to be had and a lot of enrichment trips you wouldn't get studying an Aviation Operations course anywhere else."

KIAN DEIGHTON – PILOT & AVIATION OPERATIONS (CIVIL)

Kian has laid the foundations of an exciting career at major airline TUI with his Cabin Crew role, following the completion of the Level 3 Pilot & Aviation Operations course at ASI.

Kian had access to ASI's state-of-the-art flight simulator, allowing him to further refine his skills and knowledge in a realistic and controlled environment preparing him for his journey beyond college. Now travelling the world, Kian has already flown across Europe several times in his first few months at the company.

Kian Deighton | "During my training at TUI, all the procedures and aviation-related terminology that you need to know - I had prior knowledge of from ASI - it has proven useful and put me that step ahead of people."

"Other people should join the ASI course. If you are interested in aviation - it is the place to be! It is where you'll start your career off."

Read more:



EMILY EVANS – PILOT & AVIATION OPERATIONS (CIVIL)

Emily Evans on the Pilot & Aviation Operations Civil Pathway recently graduated at RAF Cranwell and has secured an exciting Search and Rescue scholarship at Bristow.

Bristow Group is a global leader in vertical flight solutions, providing helicopter transportation and search and rescue services to civil and government organisations worldwide.

At ASI we prepare students with interview guidance and CV support to enhance your applications and further your career beyond education

Emily Evans | "ASI helped me realise that my dream wasn't beyond my reach and that with unwavering determination and the right support, my dream could become reality. And that it did."

"When I first set out on the path to becoming a search and rescue pilot, I faced various challenges, including the need to acquire the necessary skills and expertise. ASI stepped in and provided me with the training and education that formed the bedrock of my journey."



Emily Evans



Krystian Skrzypczac



Kian Deighton

HIGHER EDUCATION PATHWAYS

ASCEND TO THE NEXT LEVEL AT ASI

Our Higher Education pathways provide Level 4 (HNC) and 5 (HND) technical qualifications for prospective pilots, aviation managers and air & space engineers.

Train to be a pilot, an aviation engineer or study leadership and management roles for ground and airport operations with ASI Higher Education (HE) Programmes. Our HE students will be based in our aviation classrooms and facilities that keep teaching and learning apace with cutting-edge innovation and discovery including the use of virtual reality technologies and a flight simulator.

As part of our Higher Education (HE) programmes, our students can also choose to take an optional structured pilot training programme delivered by external partners at an additional cost that could lead to a Private Pilot Licence (PPL). More details can be found on page 14.

We have a strong focus on employability, and our training partners and professional connections give students the chance to immerse themselves in the industry. Our close proximity to East Midlands Airport – along with other regional aviation partners – means students are perfectly placed for networking, seasonal jobs and work placements that are available.

At ASI Newark, students learn from skilled lecturers who have a high level of working knowledge, based on industry experience. Their teaching can allow students to gain a deep insight into the latest trends and requirements of the aerospace and aviation sector.

These programmes will be delivered in our state-of-the-art £13m ASI HQ. This industry-standard facility will be equipped with the latest aviation industry technology.

Our exciting new pathways in Higher Education with the following routes:

ASI ENGINEER PATHWAY

- HNC Aeronautical Engineering (Full Time & Part Time) for England (HTQ) *subject to validation on the HNC/HND Aero course
- HND Aeronautical Engineering (Full Time & Part Time) for England (HTQ) *subject to validation on the HNC/HND Aero course

FLIGHT & AVIATION MANAGEMENT PATHWAY

- HNC International Travel & Tourism Management (Full Time & Part Time)
- HND International Travel & Tourism Management (Aviation) (Full Time & Part Time)

An HNC is a Level 4 qualification which is widely recognised in its own right and is designed to provide students with the skills required for employment in a range of associated professions. On successful completion of the course, students may apply to continue at ASI to study the appropriate subsequent Level 5 HND. On successful completion of the HND course, students can top up to degree level (Level 6) with our partner institution, Nottingham Trent University (NTU) – subject to validation.

All our programmes are offered as full time and part time options to support people already in employment and wanting to up-skill and develop their skills and knowledge in this exciting industry.

Industry-standard facilities,
equipped with the latest
aviation technology.



asi-newark.co.uk/higher-education

AERONAUTICAL ENGINEERING FOR ENGLAND (HTQ)

The HNC Aeronautical Engineering for England programme is ideal for students wishing to work within the aviation industry. Students firstly study the HNC Aeronautical Engineering and then have the option to progress to the HND Level 5 course.

Designed to help students build technical knowledge and skills, our course focuses on the underlying principles of aeronautical engineering. Students have the opportunity to develop the skills to recognise and alleviate risk, create a safe and efficient operating environment, and assess vital information. With a focus on the future, students can also build transferable skills and learn about the decision-making methods used by industry.

The Pearson BTEC Higher National Certificate (HNC) is at Level 4 (the same as the first year of a UK honours degree). It is an eight-unit qualification which involves studying four mandatory core subjects and a further four specialist subjects. The units have been selected to meet a broad range of local industry needs.

Our aeronautical engineering students will be based in our aviation and engineering classrooms, workshops and emulation zone that keep teaching and learning apace with cutting-edge innovation and discovery including the use of virtual reality technologies and a flight simulator.

We have a strong focus on employability, and our training partners and professional connections can give students the chance to immerse themselves in the industry. Our close proximity to East Midlands Airport, along with other regional aviation partners, means students have the opportunity for networking, seasonal jobs and work placements where available.

At ASI Newark, students learn from skilled lecturers who have a high level of working knowledge, based on industry experience. Their teaching is designed to enable students to gain a deep insight into the latest trends and requirements of the aerospace and aviation sector.

As well as receiving interesting lectures and seminars, students are also supported by personal tutors, module leaders and course leaders. In addition, guest speakers often deliver sessions for students within ASI to enrich their learning. Previously we have welcomed speakers from Jet2, British Airways, EasyJet and East Midlands Airport.

Assessments are mainly by assignment with some testing in the analytical subjects.

As part of the programme, students can choose to take an optional structured pilot training programme delivered by external partners at an additional cost that could lead to a Private Pilot Licence (PPL) or Light Aircraft Pilot Licence (LAPL). More information can be found on page 34.

HNC

+

Qualification	<ul style="list-style-type: none"> ◦ HNC Aeronautical Engineering for England
Duration	<ul style="list-style-type: none"> ◦ 1 year (Full Time) ◦ 2 years (Part Time)
Typical Structure	<ul style="list-style-type: none"> ◦ Engineering Design ◦ Engineering Maths ◦ Engineering Science ◦ Managing a Professional Engineering Project (Pearson set) ◦ Aircraft Aerodynamics ◦ Aircraft Electrical Power and Distribution Systems ◦ Airframe Mechanical Systems/Industrial Robots ◦ Composite Materials for Aerospace Applications

HND

+

Qualification	<ul style="list-style-type: none"> ◦ HND Aeronautical Engineering for England
Duration	<ul style="list-style-type: none"> ◦ 1 year (Full Time) ◦ 2 years (Part Time)
Typical Structure	<ul style="list-style-type: none"> ◦ Research Project ◦ Professional Engineering Management (Pearson-set) ◦ Further Mathematics ◦ Aircraft Flight Control Systems ◦ Aircraft Propulsion Principles and Technology ◦ Avionic Systems ◦ Advanced Composite Materials for Aerospace Applications
Progression	<ul style="list-style-type: none"> ◦ Top-Up degree delivered by Nottingham Trent University (NTU)* *Subject to validation



INTERNATIONAL TRAVEL AND TOURISM MANAGEMENT

The HNC International Travel and Tourism Management programme is ideal for students wishing to work within the aviation and aerospace industry – one of the world's largest employment fields. Students firstly study the HNC International Travel and Tourism Management and then have the option to progress to the HND Level 5 course.

The programme can lead to a fascinating and rewarding career. With high demand for air travel, career opportunities are expected to increase. Course graduates could secure roles that range from aviation management to continuing their flight training to become a commercial airline pilot.

The Pearson BTEC Higher National Certificate (HNC) is at Level 4 (the same as the first year of a UK honours degree). It is an eight-unit qualification which involves studying five mandatory core subjects and a further three specialist subjects. The units have been selected to meet a broad range of local industry needs.

We have a strong focus on employability, and our training partners and professional connections can give students the chance to immerse themselves in the industry. Our close proximity to East Midlands Airport, along with other regional aviation partners, means students have the opportunity for networking, seasonal jobs and work placements where available.

At ASI Newark, students learn from skilled lecturers who have a high level of working knowledge, based on industry experience. Their teaching is designed to enable students to gain a deep insight into the latest trends and requirements of the aerospace and aviation sector.

As well as receiving interesting lectures and seminars, students are also supported by personal tutors, module leaders and course leaders. In addition, guest speakers often deliver sessions for students within ASI to enrich their learning. Previously we have welcomed speakers from Jet2, British Airways, EasyJet and East Midlands Airport.

Assessments are mainly by assignment with some testing in the analytical subjects.

As part of the programme, students can choose to take an optional structured pilot training programme delivered by external partners at an additional cost that could lead to a Private Pilot Licence (PPL) or Light Aircraft Pilot Licence (LAPL). More details can be found on page 34.

HNC		+
Qualification	<ul style="list-style-type: none"> ◦ HNC International Travel and Tourism Management 	
Duration	<ul style="list-style-type: none"> ◦ 1 year (Full Time) ◦ 2 years (Part Time) 	
Typical Structure	<ul style="list-style-type: none"> ◦ The Contemporary Travel and Tourism Industry ◦ Managing the Customer Experience ◦ Professional Identity and Practice ◦ The Travel and Tourism Business Toolkit ◦ Leadership and Management for Service Industries (Pearson-set) ◦ Managing Aviation Services ◦ Passenger Transport Services ◦ Human Resource Management 	
HND		+
Qualification	<ul style="list-style-type: none"> ◦ HND International Travel and Tourism Management (Aviation) 	
Duration	<ul style="list-style-type: none"> ◦ 1 year (Full Time) ◦ 2 years (Part Time) 	
Typical Structure	<ul style="list-style-type: none"> ◦ Research Project (Pearson-set) ◦ Tourism Consumer Behaviour and Insight ◦ Airline Operations Management ◦ Airport Operations Management ◦ Strategic Planning for Air Transport ◦ Organisational Behaviour ◦ Strategic Human Resource Management 	

STUDENT JOURNEY: FROM MATRICULATION TO GRADUATION

Matriculation

All Further Education students will begin their aviation journey with ASI by matriculating at the prestigious International Bomber Command Centre.

Ross Tarnowski, Assistant Principal at the Lincoln College group, leading the Air & Space Institute and Engineering, said: "This event serves as a powerful symbol of our unwavering commitment to shaping not only their academic path but also their character. It's the moment where we launch our students into a future filled with promise, celebrating their potential and the immense support they receive at this exciting starting point of their educational voyage."

Find out more



Graduation

All Further Education pathway students who have completed their two-year course will graduate at RAF Cranwell's Main Auditorium, Whittle Hall.

Graduating from the Air and Space programmes represents the culmination of hard work and dedication, marking the transition from the academic environment to employment. It is a significant milestone as they embark on their impactful careers and begin applying their knowledge and skills in real-world situations.

During the ceremony we recognise students who have progressed and performed well during their studies at ASI by presenting them with awards.

All Higher Education pathway students, as part of the University Centre, will graduate at Lincoln Cathedral.

Find out more



ASINewark is under development. All course information is subject to validation and change.





To register your interest
simply visit asi-newark.co.uk

All course information is subject to validation and change.
ASI Newark is under development.

Updated February 2024.

