

# Foundation Degree in Aircraft Engineering (FdEng)



## Course Description

The Foundation Degree in Aircraft Engineering (FdEng) is an intermediate level degree programme awarded by Kingston University London. Kingston University has validated the delivery of this course by Air Transport Training College (ATTC).

Kingston University London, in conjunction with KLM UK Engineering Ltd, designed and developed Foundation Degree in Aircraft Engineering (FdEng).

If you are interested in a career in aircraft maintenance, repair and overhaul (MRO) engineering, this is the course for you.

## Career Prospect

Foundation Degree in Aircraft Engineering (FdEng) is an industry based, vocational qualification designed for people who want to get a practical start to their career.

In addition to providing a fast-track entry to industry, the Foundation Degree in Aircraft Engineering (FdEng) gives you the option of taking your studies further to a Bachelor of Science (Honours) in Aircraft Engineering awarded by Kingston University London through a Top Up programme.

## Admission Requirement

Prospective students should have GCE 'A' Level with credit in English, Mathematics and Science [Combined Science, Physical Science, Physics, Science (Physics, Biology), Science (Physics, Chemistry)] OR Polytechnic Diploma in Engineering OR equivalent.

Applicants should be at least 18 years old on 1st September during the first year of course.

Overseas students require IELTS 6.5 or equivalent

## Course Objective

This is a 2 years 3 months full-time degree programme designed to cover the basic knowledge requirements for the Part 66 Cat B 1.1 Licence and the Foundation Degree in Aircraft Engineering (FdEng) requirements of Kingston University London.

## Graduation Requirement

The Foundation Degree course incorporates the Basic Training for Category B1.1 of Part 66 of the Singapore Airworthiness Requirements that is approved by the Civil Aviation Authority of Singapore (CAAS). Upon successful completion of the Basic Training, you need to complete only 2 years (instead of 5 years) of practical maintenance experience which is one of the requirements to qualify for a CAAS aircraft maintenance licence.

## Course Duration

Full-Time: 2 years 3 months

Monday to Friday: 9.00am to 5.00pm

### Course Fee (S\$49,350) (Singaporeans & Singapore PR only)

- Application Fee: S\$200 (non-refundable)
  - Course Fee: S\$10,800 (1<sup>st</sup> instalment) + (3 payments) S\$10,800 (2<sup>nd</sup> instalment) + S\$2,750 (3<sup>rd</sup> instalment) = S\$24,350
- (SSG funding is only applicable for Singapore Citizens or Singapore Permanent Residents)

### Course Fee (International only)

- Application fee: S\$500 (non-refundable)
- Course fee : S\$21,930 (1<sup>st</sup> instalment) + (3 payments) S\$ 21,930 (2<sup>nd</sup> instalment) + S\$5,490 (3<sup>rd</sup> instalment) = S\$49,350

All fees quoted above are exclusive of GST

Course Commencement is subjected to the minimum number of participants

Kingston University London



**Air Transport Training College**

Professional Development Centre of the Singapore Institute of Aerospace Engineers

ERF Registration Number: 199901790H  
From 6 August 2018 to 5 August 2022

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## Course Structure

The modules in this 2 years 3 months full-time Foundation Degree in Aircraft Engineering (FdEng) will provide a firm foundation for training as an Aircraft Engineer. A work-based module covers 'hand skills' to aircraft engineering standard. Other modules give you an understanding of the work environment and legal requirements relating to the operations of commercial aircraft.

## Course Modules

- AE4001 Mathematics and Physics for Practitioner Engineers (BM01 & BM02)
- AE4002 Electrical Engineering Fundamentals (BM03)
- AE4003 Aerodynamics and Aircraft Electronic and Digital Systems (BM04, BM05, BM08)
- AE4010 Aircraft Practical and HE Study Skills (Practical Skills)
- AE5001 Aircraft Materials, Hardware and Maintenance (BM06 & BM07)
- AE5002 Aircraft and Their Systems (BM11A)
- AE5010 Aircraft Maintenance and Professional Practice (BM09, BM10 & Practical Skills)
- AE5011 Propulsion Systems (BM15 & BM17)

## Bachelor of Science (Honours) Aircraft Engineering - Top Up at Kingston University London

Successful Graduates of Foundation Degree in Aircraft Engineering (FdEng) will have the option to proceed to a 3rd year at Kingston University London towards a Bachelor of Science (Honours) Aircraft Engineering degree, or continue to pursue the Bachelor of Science (Honours) Aircraft Engineering degree awarded by Kingston University London at Air Transport Training College in Singapore, on a 1 year full-time Top Up / 2 years part-time course.

Modules offered in the Top Up programme provide further understanding of the integration and development of air platform technologies and aircraft maintenance operations. In addition, students will receive a holistic view of air transportation through learning air transport economics and management perspectives in this programme.



SINGAPORE  
WORKFORCE SKILLS  
QUALIFICATIONS

This degree programme is funded by SkillsFuture Singapore. 8 Aerospace WSQ units are integrated into the 2 years 3 months curriculum.

WSQ Unit	Description
AR-CCU-201C-1	WSQ IU1 Perform Basic Aircraft Safety Practices and Documentation
AR-CCU-201G-1	WSQ SU1 Perform Aircraft General Maintenance
AR-ERO-201G-1	WSQ SU2 Perform General Engine Workshop Practices
AR-AMM-201E-1	WSQ EU1 Maintain Airframe Systems
AR-CCU-201E-1	WSQ EU3 Maintain Sheetmetal Structures
AR-CCU-202E-1	WSQ EU4 Maintain Composite Structures
AR-ERO-201E-1	WSQ ERO1 Disassemble and Assemble Engine
AR-ERO-203E-1	WSQ ERO3 Inspect Engine Component Parts

## Kingston University London

Kingston University London is one of UK's highest rated universities and has a worldwide reputation for its aerospace and engineering courses. Currently there are more than 20,000 students studying in seven different faculties.

It has four campuses in the south west of the capital – two close to Kingston town centre, another at Kingston Hill and the fourth at Roehampton Vale, a site once used as an aerospace factory but is now occupied by a new technology block.

The University has an array of cutting-edge equipment including a flight simulator and LearJet. Its two-year Foundation Degree in Aircraft Engineering is regularly cited by British Government officials as an outstanding example of employer-linked education. The University offers a range of internationally-recognised qualifications.

All universities in the United Kingdom are subject to independent assessments of their teaching quality. In 2006, The Guardian newspaper ranked Kingston as the top new university in London. In its most recent University league table, The Sunday Times praised Kingston's record for teaching quality saying it positioned the University "in the vanguard of the modern university sector" and describing it as "a match for many older institutions".

The information contained in this brochure is correct as of **1 December 2018** and is subject to change without notice. ATTC reserves the right to make changes to the programme structure, admission requirements, course fee, examination rules and regulations, lecturers, dates and venue of lectures.

To apply for admission into the Foundation Degree in Aircraft Engineering (FdEng), please apply personally at the college.



Cert No: EDU-2-2031  
Validity: 28Dec2015 to 27Dec2019

# Academic Progression Pathway



Course Application Fee for each course  
 S\$200 (SG/SPR)  
 S\$500 (International Students)



Fees shown are excluding of GST

## Career Opportunities in Aviation Industry (5.1 years)

**MAR / SEP Intake 1 Year Full Time**      **MAR / SEP Intake 2 Years Part Time**



Bachelor of Science (Honours)  
 Aircraft Engineering – Top Up  
**Kingston University London**

**S\$20,000**  
 (No Funding)

Qualifying Entrance Exam

**S\$981**

**Compulsory Bridging Course**

**MAR / SEP Intake 2 Years 3 Months Full Time**



Foundation Degree in  
 Aircraft Engineering (FdEng)  
**Kingston University London**

**S\$49,350** (S\$24,350\*)

Qualifying Entrance Exam

**Compulsory Bridging Course**

**S\$817.50**

**MAR / SEP Intake 1 Year Full Time**



Specialist Diploma in Aircraft Maintenance  
 & Engineering (SAME)  
**Air Transport Training College**  
Professional Development Centre of the Singapore Institute of Aerospace Engineers

**S\$20,370** (S\$6,111\*)

Acceptance to SAME course based on 85%  
 Attendance, Passing Grade 75%

**MAR / SEP Intake 8 Months Full Time**

**S\$15,750** (S\$2,750\*)

Applied Diploma in  
 Aerospace Maintenance (ADAM)



**MAR / SEP Intake 1.5 years Part Time**

Applied Diploma in  
 Aerospace Maintenance (ADAM)



**\*Note: SSG funding is only applicable to all Singapore Citizens and Singapore Permanent Residents, PSEA Applicable**



# Air Transport Training College

Professional Development Centre of the Singapore Institute of Aerospace Engineers



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For more information on SkillsFuture Singapore:  
[www.skillsfuture.sg](http://www.skillsfuture.sg)