



KENT STREET
SENIOR HIGH SCHOOL

VIRGIN AUSTRALIA AVIATION PROGRAM



2020



Aviation at Kent Street Senior High School

One of the first secondary schools in Perth and the pioneer of aviation studies in Australia, Kent Street offer Aviation students a challenging and rewarding program designed to provide a suitable background for students wishing to pursue a career in aviation as well as those with more of a recreational or personal interest.

Aviation Students

Aviation students commute daily from across the metropolitan area, with a number traveling from as far as Wanneroo in the North, Mandurah to the South and Mt Helena to the East. Bus services to the school are regular and take about 10 minutes from the city centre.

A number of students come from country areas in order to study Aviation and a few from interstate and overseas. Whilst some of these student's board with friends or relatives in Perth, the majority stay at the Rotary Residential College which is situated on the school campus and provides high quality student accommodation.

Aviation Staff

Currently there are two full-time Aviation teachers at Kent Street both of whom are licensed commercial pilots. One of the staff is also a qualified Flight Instructor and spends approximately half of his teaching time instructing students in flying training towards their Private Pilot's License.

Aviation Education Centre

Opened in 1994, the Aviation Education Centre provides a unique learning environment designed for and dedicated to aviation education. The Centre has been well provisioned with audiovisual, computer and other learning resources and is a world-class educational facility.



Further Information regarding the Aviation Program is available on our website at www.kentstreetshs.wa.edu.au

Enrolment

Students wishing to enrol into Aviation at Kent Street should complete the Expression of Interest.

Entry Requirements

In order to be granted a place in the Aviation program students should be able to demonstrate:

- a genuine interest in aviation
- satisfactory academic performance

School reports, references and personal qualities of the applicant will be considered in determining acceptance into the course. Please enclose a copy of the last 2 school reports with your Expression of Interest form.

Aviation Aptitude Testing (Expression of Interest form must be received prior to testing)

Date – Monday 26 August 2019

Time – 8.15am for 8.30am start

Venue – Aviation education Centre, Kent Street Senior High School (Corner Lansdowne Road & Rathay streets, East Victoria Park)

Highlights of the Aviation Program

- learning to fly
- participating in work experience in aviation maintenance organisations
- helping to build an aeroplane at school
- flying jump-seat on an airliner
- visiting air traffic control, communications and radar facilities
- attending the Avalon Airshow near Melbourne
- visiting RAAF Pearce
- visiting Perth and Jandakot airports
- learning to glide
- accompanying Royal Flying Doctor Service pilots on their duties
- flying the Airbus A320 flight simulator
- listening to guest speakers from Defence Force Recruiting
- visiting the Bureau of Meteorology
- listening to guest speakers from Australian Safety Transport Bureau
- visiting the RAAF Association Aviation Heritage Museum
- making contacts within the aviation industry
- learning essential theory for the Private Pilot's License
- participating in navigation flights
- participating in an Aviation Tour to Europe
- participating in an Aviation Tour to North America

Familiarisation Flights

Kent Street currently owns two training aircraft – a Cessna 152 and a Cessna 172. In addition to these aircraft, Kent Street aviation students have built a Vans RV-6A which first flew in October, 2003. The Cessna aircraft were purchased with the aim of providing more economical and accessible flying training for our students. They are among the best equipped and maintained, and least expensive aircraft of their type available for hire at Jandakot Airport.

Opportunities exist for all Aviation students to undertake a number of familiarisation flights in these aircraft each year. Both aircraft are located at Jandakot Airport.

Country Students

The Rotary Residential College is situated adjacent to Kent Street and provides accommodation for country students. The College is operated by Rotary International and enquires should be made on (08) 9470 4177. Country students boarding in Perth to study Aviation may qualify for financial assistance from the Isolated Students' Allowance. Applications are made to the Commonwealth Department of Education, 251 Adelaide Terrace, Perth.

Scholarships

Virgin Australia may offer scholarships, each worth up to a value of \$1000 to incoming lower school students enrolled in the Aviation program.

The scholarships are to be used for aviation related activities, including air experience flights and the purchase of text books.



Former student – now a F/A 18 Pilot

Virgin Australia Flight Program (Overview)

The Aviation program spans a range of Learning Areas including Mathematics, English, Science, Society and Environment, and Technology and Enterprise.

The Aviation program is designed to be highly motivating, stimulate and foster intellectual curiosity, and promote logical and analytical thinking. It encompasses a range of mathematical, technological and humanities concepts in which students are required to use a variety of skills, processes, understandings and strategies to make informed decisions on issues relating to aviation.

Students are encouraged to participate in familiarisation flights in a variety of aircraft throughout the program. This fosters enthusiasm and self-discipline. In addition, the practical component enhances students' interest and motivates them to achieve in all learning areas.

The Aviation program caters for the learning needs of all students, from those seeking a career in aviation, science or engineering, to others pursuing an avid interest in the subject as a hobby.

The broad cross-curricula approach provides students with an opportunity and a suitable background to pursue advanced units in the Aviation program in Years 11 and 12.

The objectives of the program are;

- to provide students with a broad knowledge of aircraft and their operations
- to enable students to have a greater understanding of the aviation industry
- to provide students with an awareness of career opportunities existing in the field of aviation.

Aviation Program Modules

Year 7

- Space
- Aviation Careers
- Cutting Edge Aviation
- Practical Activities

Year 8

- Mechanics of Flight
- World of Aviation
- Structure of the Aeroplane
- The Aeroplane and its Environment

Year 9

- Power to Fly
- Model Making/ Drones
- Robotics
- Physics of Flight

Year 10

- Flying the Aeroplane
- The Aeroplane at War
- Human Factors in Aviation
- Model Making/ Drones

Year 11 & 12

- Aerodynamics
- Performance & Operation
- Human Factors
- Aviation Development

Note: Familiarisation flights are conducted in school aircraft at student expense. The cost is approximately \$100 per flight and students are encouraged to undertake several flights each year in order to better understand important aspects of aerodynamics, communications, aircraft systems and instruments taught in class.



Industry Partnerships – Kent Street and Virgin Australia

During 2008, Kent Street formed an industry partnership with a reputable Western Australian aviation company, Skywest Airlines. Since the take-over by Virgin Australia in 2013, the relationship has grown and now offers students exciting possibilities. We look forward to further developing this mutually beneficial alliance between Kent Street and Virgin Australia.

The strategic long-term outcomes of this project are self sustaining as Skywest's CEO stated in 2008: 'Our investment in this program is a key aspect of our human resource strategy. We're paving the way for career opportunities for future pilots and engineers.' Virgin Australia takes an active role in the school-based program by providing guest speakers and involving other learning areas of the school to prepare students for work in call centres, sales and marketing and cabin crew.

Career Opportunities

Virgin Australia is providing selected upper school students with an opportunity to undertake work experience in **aircraft maintenance** at their facility located at Perth Airport. This formal internal training may lead to these students gaining an apprenticeship with Virgin Australia upon high school graduation.

For those students interested in a career as an airline pilot, Virgin Australia is providing selected upper school students with the opportunity to undertake '**jump-seat rides**' in their Fokker 50 and Fokker 100 aircraft. During these flights, students shadow Virgin Australia pilots and become involved in determining relevant aircraft data and deciphering pertinent meteorological data. In addition, students will observe radio communication and gain a greater understanding of navigation principles.

