About the Diploma

Aviation is more than just pilots and jumbo-sized aircrafts. Behind the glorified publicity are a team of unsung professional engineers who ensure that aircrafts are in tip-top condition and flight safety are not compromised.

The Diploma in Aerospace Avionics (DAA) will prepare you for a career in the high-tech domain of aircraft electrical systems, instruments, and avionics. You will gain first-hand experience in handling the flight instruments and controls found in an aircraft cockpit, as well as the auto-flight communication systems that keep an aircraft safe during flight.

To become a qualified license engineer requires several years of specialised training and exposure as a trainee engineer. This diploma programme provides the first stepping stone in becoming a full-fledged engineer well-versed in the field of aerospace avionics technologies.


Entry Requirements: [http://www.rp.edu.sg/admissions.aspx](http://www.rp.edu.sg/admissions.aspx)


School of Engineering Outreach: [https://www.facebook.com/RepublicPolySEG](https://www.facebook.com/RepublicPolySEG)

Republic Polytechnic
9 Woodlands Ave 9
Singapore 738964
Course Structure

General Modules (28 MC)
A113 Mathematics
A107 Physics
B102 Organisational Behaviour
E114 Mathematics for Engineering
G101 Cognitive Processes and Problem Solving
G107 Effective Communication
G905 Life Skills

Discipline Modules (44 MC)
C105 Introduction to Programming
E105 Digital Electronics I
E112 Engineering Design
E201 Digital Electronics II
E203 Circuit Analysis
E204 Linear Circuits and Control
E207 Communication Systems
E208 PCB Design and Prototyping
E219 Analogue Electronics
E221 Aerodynamics and Propulsion
E232 Aircraft Instrument Systems

Specialisation Modules (20 MC)
E364 Aviation Maintenance Practices
E365 Aviation Human Factors
E366 Aircraft Electrical Systems
E367 Aircraft Communications and Navigation Systems
E368 Auto-flight Systems

Industry Orientation Programme (24 MC)
G301 Project / G311 Industry Project
E331 Industry Immersion Programme (20 MC)

Elective Module (4 MC) – Select 1 module
A211 Advanced Mathematics I – Differential Equations
A212 Advanced Mathematics II – Linear Algebra
E302 Data Acquisition and Sensors
E303 Data Communications
E369 Airframe Structures

Freely Chosen Module (4 MC)
Select 1 module from the range of modules offered by the Schools and Centre in RP.

Course Duration

To graduate with a Diploma in Aerospace Avionics, you must complete a total of 124 modular credits. You should be able to do this within three years of enrolment if you successfully complete on average five modules, or its equivalent, per semester.

Career Prospects

DAA graduates can look forward to an ever-expanding job opportunities in the aviation sector and engineering-related fields.

You will be industry-ready for roles such as:

- Licensed Aircraft Engineer (B2)
- Avionics System Specialist
- Avionics Engineer
- Avionics Equipment Test Engineer
- Assistant / Associate Engineer

Areas such as:

- R&D / Product Design
- Technical Marketing
- Application Support
- Aircraft Specialist
- Equipment Testing
- MRO

Further Studies

Graduates can choose to pursue further education in local or overseas universities:

- Local: NUS, NTU, SMU, SUTD, SIT, SIM
- Overseas Universities
- Up to 2 years of credit exemption or advance standing for relevant degree programme

Information pertaining to the specific institutes of Higher Learning can be found at: