



AEROSPACE ELECTRONICS

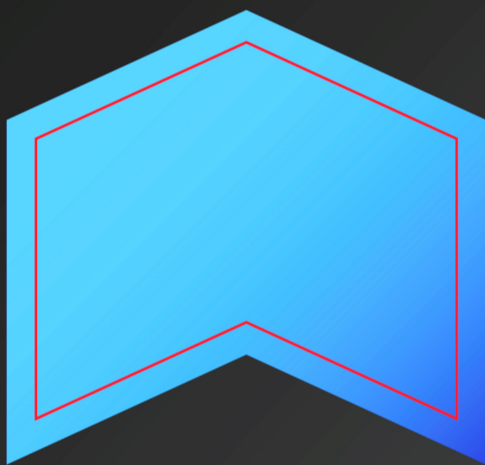
Temasek Polytechnic
School of Engineering



Take off to an exciting career in the Aerospace industry!

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AEROSPACE ELECTRONICS



Course Overview

You will undergo a rigorous aerospace training programme, which includes practical modules taught by expert Aerospace instructors certified by Lufthansa Technical Training (LTT) of Germany. You will be equipped with both the fundamental and applied knowledge for aircraft electrical, communication, navigation and flight control systems.

- First polytechnic in Singapore to be certified by the Civil Aviation Authority of Singapore (CAAS) as a SAR-147 Approved Maintenance Training Organisation (AMTO)
- Aligned to the latest SAR-66 curriculum
- Get direct credits to shorten your subsequent Aircraft Maintenance Licence (AML) apprenticeship by 10 months
- Well-equipped TP-LTT Training Centre on campus
- As part of your course, you can take flying lessons at the Singapore Youth Flying Club leading to a Private Pilot Licence (PPL).

Career Opportunities

As the aviation sector continues to pick up speed, there will be an increasing demand for highly skilled and licensed aircraft engineers (LAE). Tap into opportunities in the fast-expanding aerospace sector, which has an output worth S\$15.4 billion (2023) and hires more than 20,000 workers spread across more than 100 local and international companies in Singapore.

You can be employed in sectors such as aircraft maintenance, repair & overhaul (MRO), avionics testing and measurement, as well as the development, manufacturing or technical sales of aircraft systems and components.

Exciting jobs for you include:

- Aircraft Maintenance Engineers
- Avionics System Specialists
- Avionics Test Engineers
- Process / Quality Engineers



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What You'll Study

Select the Elective Cluster that brings your dream job to life!

- Year 1:
- Artificial Intelligence in Engineering
 - Avionic Systems
 - Circuit Analysis
 - Computer Programming for Problem Solving
 - Digital Fundamentals 1 & 2
 - Electronic Devices & Circuits
 - Engineering Mathematics 1 & 2
 - Engineering Physics

- Year 2:
- Aerospace Maintenance Practices
 - Aircraft Electrical Fundamentals
 - Aircraft Electronics & Servomechanisms
 - Data Visualisation & Analytics
 - Engineering Mathematics 3
 - Fundamentals of Aeronautical Science

- Year 3:
- Aircraft Digital Systems
 - Aviation Legislation & Human Factors
 - Basic Aerodynamics

- IoT & Automation Elective Cluster #
- Intelligent Automation
 - Internet of Things Project

- Aerospace Operations Elective Cluster ^
- Lean Processes
 - Unmanned Aircraft Operations

Students must choose either # or ^

Temasek
POLYTECHNIC
CREATING TOMORROW

21 Tampines Ave 1
Singapore 529757

www.tp.edu.sg/eng

enghotline@tp.edu.sg

[Instagram.com/tpengine](https://www.instagram.com/tpengine)

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T50
Diploma in
Aerospace
Electronics



The information in this brochure is accurate at the time of printing
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