



AIRCRAFT MAINTENANCE ENGINEERING



AIRCRAFT

MAINTENANCE ENGINEERING

DIPLOMA IN AIRCRAFT MAINTENANCE ENGINEERING

JPTB/PBP/19/15/25/4/0002/09/27_1(MQA/A6305)

DURATION

2.5 years (including 6 months
of On Job Training)

INTAKE

January / June / September

SCHOLARSHIP/AID

Available

PROGRAMME MODULE

Year 1

Core Modules

- Mathematics
- Physics
- Basic Aerodynamics
- Electrical Fundamentals I
- Electrical Fundamentals II
- Materials and Hardware
- Electronic Fundamentals
- Maintenance Practices I
- Maintenance Practices II
- Aviation Legislation
- Airframe Structures
- Academic English with Research

Compulsory Modules (MPU Subjects)

- Graduate Preparatory Course
- Bahasa Kebangsaan A
- Penghayatan Etika Dan Peradaban (Malaysian Students) OR Bahasa Melayu Komunikasi I (International Students)
- Co-curriculum
- Integrity and Anti-corruption

**On Job Training begins at the completion
of year 2*

Year 2

Core Modules

- Human Factors
- Theory of Flight and Flight Controls
- Air Conditioning, Cabin Pressurisation and Oxygen Systems
- Turbine Engine and APU
- Digital Techniques and Electronic
- Instrument System
- Aircraft Hydraulics and Pneumatics
- Aircraft Landing Gears and Brakes
- Instrument and Avionics Systems
- Aircraft Electrical Systems
- Final Year Project

Elective Modules (Choose one set)

Set 1

- Engine Lubrication, Fuel and Air Systems
- Propeller
- Engine Operation and Maintenance

Set 2

- Aircraft Communication System
- Aircraft Autoflight System
- Aircraft Navigation System



SUMMARY OF ENTRY REQUIREMENTS

Diploma in Aircraft Maintenance Engineering

JPTB/PBP/19/15/25/4/0002/09/27_1(MQA/A6305)

- Sijil Pelajaran Malaysia (SPM): a pass with at least credit in three (3) subjects including Mathematics and, sciences or technical based subjects
- Sijil Pelajaran Malaysia (SPM): a pass with at least credit in three (3) subjects including science or technical based subject and a pass in Mathematics. A bridging course in Mathematics is required
- Certificate in Engineering or Engineering Technology
- Sijil Kemahiran Malaysia (SKM) Level 3 / Sijil Vokasional Malaysia (SVM) in related fields
- APELA T-4 with appropriate experience

ENGLISH REQUIREMENTS (for international students)

MUET B2 / IELTS 4.0 / TOEFL 397(PBT) 30-31(IBT)/CAE 160/CPE 180/PTE 30

HEALTH REQUIREMENTS

All offers are subject to the students being certified by a medical practitioner as fit to be accepted into the programme within a month from commencement of the aircraft maintenance programme and not having any of the following medical/physical conditions:

- Colour Blindness • Hearing Impairment • Asthma

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MAINTENANCE ENGINEERING

PROGRAMME INFORMATION 2024 - 2025

ADVANCED DIPLOMA IN AIRCRAFT ENGINEERING TECHNOLOGY (ADAE)

JPT/BPPP/R2/S25/S/0018/04/Z7, (MQA/FA1380)

DURATION

1 year for Nilai University Graduates

*1 year and 1 semester for other Institution Graduates

INTAKE

January / June / September

SCHOLARSHIP/AID

Available

PROGRAMME MODULE

*Year 1

Core Modules

- Research Methods and Design
- Aerospace Technology I
- Air Transport Economics I
- Aircraft Maintenance Operations I
- Aircraft Engineering Individual Project I
- Aerospace Technology II
- Air Transport Economics II
- Aircraft Maintenance Operations II
- Aircraft Engineering Individual Project II
- Unmanned Aerial Vehicle Operations

Elective Module (Choose one module)

- Aviation Safety OR
- Airline and Airport Operations OR
- Air Traffic Management

Compulsory Modules (MPU Subjects)

- Co-curriculum
- Penghayatan Etika Dan Peradaban (Malaysian Students)
OR Bahasa Melayu Komunikasi I (International Students)
- Integrity and Anti-corruption

Year 2

Compulsory Modules (MPU Subjects)

- Graduate Preparatory Course
***Bahasa Kebangsaan A

*For students who have not taken MPU subjects and other Institution Graduates (1 year and 1 semester)

**For students who have already taken the MPU subjects in the Diploma at Nilai University is not required to take the MPU subjects (1 year)

***Students who do not have credit in Bahasa Melayu at SPM level, must take Bahasa Kebangsaan A course as MPU course.



SUMMARY OF ENTRY REQUIREMENTS

Advanced Diploma in Aircraft
Engineering Technology (ADAE)

JPT/BPPP/R2/S25/S/0018/04/Z7, (MQA/FA1380)

- Graduated with Diploma in Aircraft Maintenance Engineering or related field (Level 4, MQF) with minimum GPA 2.00; or
- A pass in SPM or equivalent; or
- A pass in SPM English; or its equivalent

HEALTH REQUIREMENTS

All offers are subject to the students being certified by a medical practitioner as fit to be accepted into the programme within a month from commencement of the aircraft maintenance programme and not having any of the following medical/physical conditions:

- Colour Blindness
- Hearing Impairment
- Asthma



CAREER PROSPECTS

- Aircraft Maintenance Technician
- Aircraft Maintenance Engineer (Mechanical)
- Aircraft Maintenance Engineer (Avionics)
- Aero Components Repair Technician
- Quality Assurance Engineer
- Airworthiness Inspector
- Technical Service Engineer

AIRCRAFT MAINTENANCE ENGINEERING

For more information, please contact our Education Counsellors.

**Student Recruitment Department
Nilai University**

Nilai University DU032106

No. 1, Persiaran Universiti, Putra Nilai,
71800 Nilai, Negeri Sembilan, Malaysia.

Tel: +606-850 5301 / 2308 | Email: study@nilai.edu.my

Malaysian Students



+6017-350 1188

International Students



+6017-381 6688

