

TriadWorks' Aviation Pathway

- Aeronautical Engineering Path
- Aviation Maintenance Path
- Career Pilot Path

Aeronautical Engineering Pathway Options



High School Learner

Academic Focus before Graduation

- 4 years math/science/social studies/English
- Foreign Language
- Internship/Job Shadowing
- Physical Education and Health
- Electives
 - Aviation
 - Drafting
 - Electronics
 - Computer Engineering
 - Networking
 - Drafting Certification
- SolidWorks Electronics
- ENC 1 and 3

College Options

- Associate Degree
 - 2-year degree program
 - Pre-engineering
- Bachelor's Degree in Engineering
 - Accredited by EBET*
 - 4-year degree program
 - *Accreditation Board of Engineering and Technology

Adult Learner

College Options

- Bachelor's Degree in Engineering
 - Aerospace Engineering
 - Mechanical Engineering
 - Civil Engineering
 - Electrical / Electronics Engineer

Career Options

- Automation and Control Solutions Engineer
- Environmental and Combustion Controls Engineer
- Hardware Engineer
- Electronics Engineer
- Embedded Firmware Engineer
- Research and Development Engineer
- MEMS Sensors Scientist
- Computer Engineer
- Mechanical Engineer License

Adult Learner (cont'd)

Professional Engineering (PE)

Requirements:

- A degree from an ABET program.
- A passing score on the Fundamentals of Engineering FE Exam
- Relevant work experience, typically four years.
- A passing score on the Professional Engineering (PE) exam.

Soft Skills Needed:

- Analytical Skills
- Business Skills
- Critical Thinking Skills
- Math Skills
- Problem Solving Skills
- Writing Skills
- Effective Verbal/Written Communication
- Computer Competency
- Professionalism

Aviation Maintenance Pathway Options

Certificate

License

Associate
Degree

Bachelor's
Degree

Master's
Degree

PhD

High School Learner

Academic Focus before Graduation

- 4 years math/science/social studies/English
- Foreign Language
- Physical Education and Health
- Electives
 - Aviation
 - Drafting
 - Electronics
- Drafting Certification
 - SolidWorks
- Electronics
 - ENC 1 and 3

College Options

- Certificate Airframe or Powerplant 1-year program
- Associate Degree 2-year degree program A&P
- Bachelor of Science 4-year degree program

Adult Learner

Airframe and Powerplant Mechanic

A&P

- A&P license

College Options

- Certificate Airframe or Powerplant
 - 1-year
- Associate Degree
 - 2-year degree program
- Bachelor's of Science
 - 4-year degree program

Career Options

- Airframe Mechanic
- Structures Mechanics
- Airframe and Powerplant Mechanics

Special Note: All jobs require criminal background and drug screening clearance.

Continuing Education for Non-Licensed Positions

Certificate of Completion

- AMQCP- Aviation Manufacturing Quick Careers Program
- Non-Destructive Training (NDT)

Career Options

- Non-licensed positions
- Manufacturers

Soft Skills Needed:

- Problem Solving Skills
- Time Management
- Stress Management
- Effective Verbal/Written Communication
- Computer Competency
- Professionalism

Career Pilot Pathway Options



High School Learner

Academic Focus before Graduation

- 4 years math/science/social studies/English
- Foreign Language
- Physical Education and Health
- Electives
 - Aviation
 - Drafting
 - Electronics

Drafting Certification

- SolidWorks

College Options

- Associate Degree
 - 2-year degree program
- Bachelor of Management
 - 4-year degree program

Special Note: All jobs require clean driving record and drug screening clearance.

Adult Learner

Flight Training

- Part 141 School (Ground School)
- Part 61 School (Flight Training)

College Options

- Aviation Management Option
 - 1-year program
- Aviation Career Pilot Option
 - 1-year program
- Associates Degree-Aviation Management
 - 2-year degree program
- Associate Degree-Career Pilot
 - 2-year degree program
- Bachelor of Management
 - 4-year degree program

Career Options

- Corporate Pilot
- Regional Pilot
- Certified Flight Instructor
- Airport Management
- Military Pilot

Continuing Education Flight Training

Certificate of Completion

- Ground School
- Flight Simulator Time
 - 2.5 hours toward Private
 - 10 hours toward Instrument

Career Options

- Corporate Pilot
- Regional Pilot
- Certified Flight Instructor
- Military Pilot

Soft Skills Needed:

- Problem Solving
- Time Management
- Stress Management
- Effective Verbal/Written Communication
- Computer Competency
- Professionalism