


# AABI International

	Civil Aviation University of China
	College of Aeronautical Engineering
	B.S. Flight Vehicle Propulsion Engineering
June 6, 2021	Student Achievement

\*Excerpt from AABI Form 225 Policies & Procedures Manual:

3.4.2 For each AABI-accredited aviation program, institutions MUST accurately

the following information, updated annually:

- The objectives of each accredited program
- Program assessment measures employed
- Graduation rates
- Rates and types of employment of graduates

## **Objectives of Accredited Program**

Program Mission:

The Flight Vehicle Propulsion Engineering program cultivates technology and management leader who will be engaged in aero-engine maintenance and engineering management in the future.

Through general education, professional learning and practical training, students should be able to achieve the following five program educational goals (PEG):

PEG1: Apply aero-engine theoretical knowledge, engine related technical data, and appropriate tools to solve technical problems of civil aero-engine operation and maintenance, and have the ability to participate in aviation maintenance basic license examination.

PEG2: Apply mathematical knowledge and engine operation & maintenance data analysis means combining with civil aviation laws, regulations and other airworthiness requirements to manage and make decisions on aero-engine operation and maintenance.

PEG3: Possess good team work, cross-cultural and international communication skills.

PEG4: Track advanced methods and technologies in aero-engine maintenance field, and have the ability of career planning and lifelong learning.

PEG5: Possess positive professional ethics, good humanistic quality and social responsibility required for aero-engine operation and maintenance.

## Student Learning Outcomes

### AABI General Criteria:

- a. apply mathematics, science, and applied sciences to aviation-related disciplines
- b. analyze and interpret data
- c. work effectively on multi-disciplinary and diverse teams
- d. make professional and ethical decisions
- e. communicate effectively, using both written and oral communication skills
- f. engage in and recognize the need for life-long learning
- g. assess contemporary issues
- h. use the techniques, skills, and modern technology necessary for professional practice
- i. assess the national and international aviation environment
- j. apply pertinent knowledge in identifying and solving problems
- k. apply knowledge of business sustainability to aviation issues

### AABI Aviation Core Criteria:

1. Describe the professional attributes, requirements or certifications, and planning applicable to aviation careers
2. Describe the principles of aircraft design, performance and operating characteristics; and the regulations related to the maintenance of aircraft and associated systems
3. Evaluate aviation safety and the impact of human factors on safety
4. Discuss the impact of international aviation law, including applicable International Civil Aviation Organization (ICAO) or other international standards and practices, and applicable national aviation law, regulations and labor issues on aviation operations
5. Explain the integration of airports, airspace, and air traffic control in managing the National Airspace System
6. Discuss the impact of meteorology and environmental issues on aviation operations

### Program-specific Criteria:

- A. Graduates possess the necessary knowledge to competently and ethically function as a maintenance professional in the aviation industry
- B. Graduates possess the necessary skills to competently and ethically function as a maintenance professional in the aviation industry
- C. Graduates possess the necessary attitudes to competently and ethically function as a maintenance professional in the aviation industry
- D. Significant culminating upper division experience in aviation maintenance

## **Program Assessment Measures**

A comprehensive assessment plan is implemented to enable continuous improvement in student learning outcomes, curriculum mapping, etc. Assessment activities include:

- Course evaluation (exam or report, Graduation Project(Thesis))
- Graduating student surveys
- Teaching monitoring and evaluation
- Alumni survey
- Program self-assessment
- Education Plan

### **Graduation rates**

After freshmen enter the school, there will be two major transfers between freshman and sophomore. Some students transfer from other majors to Flight Vehicle Propulsion Engineering, and some students transfer to other majors. So we calculated the four year and six year graduation rate based on the number of senior students. The following table shows the graduation rates in the past five years.

Initial Grade	Total	4 <sup>th</sup> Year Grad	6 <sup>th</sup> Year Grad
2012	277	84.16%	97.11%
2013	311	83.92%	95.18%
2014	277	90.61%	99.6%
2015	311	89.39%	
2016	334	94.3%	

### **Rates and types of employment of graduates**

In 2020, there are 370 students graduated from aircraft power engineering. The number of student employed by companies and continuing their education is 328. Most of the students are employed by airlines, aviation maintenance companies, airports, and aircraft manufacturing companies, including:

Sichuan Airlines Co., Ltd