

PROGRAM OBJECTIVES

Educational Aims of The Program

The four-year degree program (ABAME) has a broad range of program missions:

1. Prepare students to earn a professional Aircraft Maintenance License (EASA CAT A).
2. Prepare graduates who are distinguished by their skills, hands-on experience and analytical ability to be successful as Aircraft Maintenance Engineers, embracing innovation and research, striving for life-long learning and professional development in the field of aircraft maintenance.
3. Prepare students to be ready to supervise the maintenance and repair of aircraft, to make sure it's in top shape and set for flight.
4. Prepare students who wish to use their maintenance skills as a platform, for advancing into an aircraft structure repair officer and position in one of the many aviation maintenance environments.

Program Educational Objectives (PEOs)

The Applied Bachelor in Aircraft Maintenance Engineering Program Educational Objectives (PEOs) are derived from Abu Dhabi Polytechnic's vision and educational objectives.

PEO1: Provide students with a sound base of knowledge in aircraft Maintenance engineering that enables them to have competencies in the maintenance, structure repair and overhaul of modern aircraft, its components, and systems.

PEO2: Provide students with quality education incorporating current technologies, to prepare them for professional development and advanced studies in aircraft maintenance engineering or a related area.

PEO3: Engage students with teamwork and leadership experiences, while demonstrating effective communication skills and knowledge of related contemporary issues.

PEO4: Enhance students' abilities as aircraft maintenance engineers, supervisors, or aircraft structure repair officer.

PEO5: Develop an awareness of the cost, moral, legal, economic, environmental and cultural constraints and obligations under which they practice.

PEO6: Produce future engineers who are committed to and prepared for lifelong learning who are recognized internationally as highly competent aircraft maintenance engineering graduates.

Program Learning Outcomes

The Program learning outcomes for Applied Bachelor in Aircraft Maintenance Engineering (ABAME) follows, the previous list of educational objectives for the program as provided by ADPoly's vision.

- SLO 1: An ability to apply knowledge, techniques, skills and modern tools of mathematics, science, engineering, and technology to solve broadly defined aeronautical engineering technology problems appropriate to the discipline.
- SLO 2: An ability to design systems, components, or processes meeting specified needs for broadly defined aeronautical engineering technology problems appropriate to the discipline.
- SLO 3: An ability to apply written, oral, and graphical communication in broadly defined technical and non-technical environments; and an ability to identify and use appropriate technical literature.
- SLO 4: Conduct standard tests and measurements to analyze, and interpret experiments and to apply experimental results to improve processes.
- SLO 5: Perform maintenance, repair, overhaul and modification procedures on aircraft systems and components to maintain aircraft safety and airworthiness.
- SLO 6: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings and work in accordance with Aircraft Maintenance Manuals, Service Bulletins, Industry Standards, EASA and GCAA Regulations.
- SLO 7: An ability to apply innovation and entrepreneurship skills to broadly defined engineering applications.