

BAETC Background

BAS Aircraft Engineering Training Centre (BAETC) is an EASA 147 organization fully accredited by the European Aviation Safety Agency with accreditation certificate EASA 147.0002.

BAETC holds a peerless position as the most specialized aviation training centre in the Kingdom of Bahrain.

Combining both practical and theoretical aspects of the principles of aircraft engineering the BAETC training program offers more personalized training and instruction by stipulating 12 to 15 students per class. Practical courses take place at the BAS Engineering Practical Training Centre, located within Bahrain International Airport, while the Al Barsha'a Building directly opposite the Moevenpick Hotel hosts the theory lessons. Students find themselves highly motivated and inspired by the exciting, hands-on learning environment, well preparing them for the rigors of professional life in the aviation industry.

Overview of Training

BAETC is currently accredited to deliver training in the categories B1.1 and B2. Both categories require 2400 guided learning hours which are completed during the two year program. The course is studied in both the classroom and practical workshop and is consolidated by 10 weeks of On-the-Job Training (OJT) within an approved aircraft maintenance facility, which must also be accredited with an EASA part 145 approval.

Throughout the course, progress is regularly monitored by carrying out formal examinations which are in accordance with EASA regulations and are conducted internally within BAETC. Students must gain more than 75% in all examinations which are conducted under the strict rules of EASA examination procedures.

Courses and Programs

1. EASA Part 66

Below is the list of modules taught during the 2-year theoretical training:

- Mathematics
- Physics
- Electrical Fundamentals
- Practical Workshop Skills Training
- Digital Techniques

- Materials and Hardware
- Maintenance Practices
- Basic Aerodynamics
- Human Factors
- Aviation Legislation
- Turbine/Piston Aeroplane Aerodynamics
- Structures and Systems
- Practical Workshop Skills Training
- Aerodynamics
- Engine Instruments
- Gas Turbine Engines
- Propellers
- Supervised On-The-Job Training on Aircraft

Upon completion of the 2-year academic training and in order to qualify for a Part-66 Basic License, students are required to complete a minimum of 2-years work experience to acquire hands-on aircraft maintenance experience in an EASA Part-145 approved maintenance organization. The 2-years Work Experience Programme is a stand alone package for which candidates are required to sign a separate contract.

2. HND Level 5 in Aeronautics

BAETC is an Edexcel certified training centre approved to offer BTEC programs. The Level 5 Higher National Diploma (HND) in Aeronautical Engineering is incorporated in the Part 66 B1/B2 course for both current and incoming students in order to expand the educational capacity of the program and provide more diverse post-secondary educational options and pathways.

Students who successfully complete the 2-year training program will be offered the opportunity to complete a short series of assessments, under the guidance and supervision of our instructors, to obtain HND. HND qualifications are widely recognized in the market and accredited by higher educational institutions worldwide. Students with HND qualifications have even better career opportunities or can further engage in university level education, i.e. BSc, BEng, in a reduced timeframe.

3. Type Training

Type Training (RATING) courses include theoretical and practical elements of the aircraft type chosen and consist of the appropriate courses in relation to the license holder privileges.

BAETC offers the following Type rating courses:

- Airbus A340 CFM 56 B1 & B2

- Airbus A330 RR RB2 11 Trent B1 & B2
- Airbus A340 to A330 Differences Course
- Airbus A319/A320/A321 V2500 B1
- Airbus A319/A320/A321 CFM 56 B1

4. Human Factors

Maintenance Human Factors Training (MHFT) examines the importance of Human Factors to Aircraft Maintenance Engineering. It is essential to all personnel operating in the aircraft maintenance and engineering environment. The aim of MHFT is to increase safety, quality and efficiency in aircraft maintenance operations by reducing human error and its impact on maintenance activities.

This course is designed to satisfy the EASA requirements for all personnel requiring Human Factors training as per EASA Part 145 A. 30 (e).

5. Essay Writing

A workshop on Essay Writing is designed to provide students with strong writing skills as they study modules that contain essay questions. Students work on improving their skills on analyzing essay questions, planning, and structuring essays. On completion of the workshop, students will be able to write confidently, focus on key points, organize their ideas, and communicate technical information clearly and concisely.

6. Customized Training

The customized training for EASA Part-66 modules is a condensed course designed as a review of EASA Part-66 module knowledge requirements for candidates who wish to attend an EASA Part-66 examination with the intention of applying for an EASA Part-66 license.

This program is considered suitable for candidates who have obtained experience or previously attended relevant training.

BAETC is also conducting EWIS, ETOPS and FTS training upon request.

For further information, visit www.baetc.org or contact baetc@bas.com.bh.