CNFSimulator.MTD

The A320 maintenance training device (MTD) simulates the electronic, electrical, mechanical, and engine system functions of aircraft, and simulates two engines including CFM 56-5B and IAE V2500-A5. It has various types of training items and simulated flight functions, meeting the requirements of students for the training of starting the aircraft according to the procedures and completing the aircraft take-off and landing procedures, so it can be used for comprehensive training of maintenance curriculums in aviation academies.

Maintenance Training Device (MTD)

1.2 Features

① Standard Specification:

Follow the Turbine Engine Aircraft Structure and System (M11) and Gas Turbine Engine (M14) modules of AC-147-02, and the model part and aircraft maintenance manual of Airbus A320.

② Customized Upgrade:

Able to track client needs and provide customized upgrades to make products more suitable for the future teaching needs of clients.

③ Advanced Training and Teaching Concept:

Guided by the concept of aviation maintenance engineering education, taking into account student's learning curve from classroom to laboratory and engineering practice, the experimental projects were designed as from rudimentary to advanced. The experimental projects focus on the difficulties and key content in the academic course outline of locomotive maintenance, follow the CCAR147 outline requirements of locomotive maintenance engineering and aircraft maintenance manual standards, and emphasize on the actual training of the maintenance engineering, thus providing a progressive experimental project for each onboard system of the entire A320 aircraft and involving various maintenance work parts of the aircraft.

1.3 Performance

1

Simulate basic functions of airborne systems including ATA21 air conditioning system, ATA22 automatic flight system, ATA23 communication system, ATA24 power system, ATA26 fire protection system, ATA27 flight control system, ATA28 fuel system, ATA29 hydraulic system, ATA30 anti-icing and rain drainage system, ATA31 electronic gauge system, ATA32 landing gear system, ATA33 lighting system, ATA34 navigation system, ATA36 bleed air system, ATA49APU system, ATA70-72 engine system, and BITEs, etc.

2

Possess a variety of model training projects that comply with AC-147-02 and AC-147-04R1, and conduct training based on job cards or maintenance manuals;

3

Simulate two engine models: CFM 56-5B and IAE V2500-A5;

4

Working environment: able to run for a long time under general office environment conditions without special temperature and environmental requirements.

5

Able to continuously and stably work for more than 24 hours.

1.4 Practical Teaching

Taking into account the CCAR147 training syllabus, the maintenance teaching part was specially designed, including job cards and A320 maintenance manuals in Chinese and English.

In the rudimentary stage, based on AC-147-02 requirements, the teacher assigns experimental projects, the students follow the job card to experiment, and the experimental project job cards are displayed in Chinese and English, thus guiding the students to follow the steps of the experiment, master the principle of the system through the experiment, and training the students to gradually adapt to the English maintenance job cards. The experimental projects come from the maintenance tasks of the A320 maintenance manual. It is easy for students to get started and master the system principles. The content of experiments conforms to the actual maintenance engineering of the A320 maintenance manual.

In the advanced stage, the teacher assigns the A320 maintenance manual maintenance tasks, and the students follow the A320 maintenance manual to complete the training task, which is the same as the aviation enterprise model training and meets the requirements of CCAR147-04. Such practice exercises students' standardized operation and fault diagnosis skills. The A320 maintenance manual is entirely in English. The maintenance tasks are the same as the actual tasks of airline maintenance engineering to guide students to smoothly move towards civil aviation maintenance engineering.

COMPANY PROFILE

Established in 2007, CnTech Co., Ltd. (stock abbreviation: CnTech , stock code: 838476) is mainly engaged in software technology services, flight simulators/maintenance simulator, system simulation platforms, virtual training systems, etc. and serves on a global scale in fields such as aerospace engineering, national defense and military, teaching and training, science popularization.