

VIETNAM AVIATION ACADEMY

Department of Telecommunication - Electronics Engineering Technology

LOCATED IN HO CHI MINH CITY



Graduate Internship Report:

"INTRODUCTION TO SIMULATOR MAINTENANCE PROCEDURE AND MPIC SYSTEM"

Written by

Nguyen Van Anh Tuan

Roll.No.1753020018

Under the guidance of

Msc.Vo Phi Son

May 31, 2021

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WORDS OF THANKS

Reality show that success is always associated with support of friends, teacher,... And i have special thanks to Mr.Vo Phi Son and my close friends for helping me completing this report.

I have tried my best to do this report. However, due to my lack of experience and knowledge, there are still some unexpected mistakes in the report. Please let me know your opinions and criticizes. Once again, thank you so much.

Auth.Nguyen Van Anh Tuan

[illegible]

Instructor

[illegible]

Internship Department

CONTENTS

1	OVERVIEW ABOUT PROJECT	7
1.1	Reasons For Choosing The Topic	7
1.2	The Target of Research	7
1.3	Research Methods	7
1.4	Research Scope	7
2	OVERVIEW ABOUT BAA TRAINING VIETNAM	8
2.1	History Of Formation And Development	8
2.2	Field Of Activity	9
2.3	Organizational Structure	9
2.3.1	Managing Director	10
2.3.2	Quality Assurance Department	10
2.3.3	Training Department	10
2.3.4	Technical Department	11
2.3.5	Sales And Customer Care Department	11
2.4	Main Resources	11
2.4.1	Infrastructure	11
2.4.2	Training Equipment	11
2.5	Performance results 2019 - 2020	12

List of Figures

2.1	BAA Training Vietnam logo	8
2.2	Headquarter of BAA Training Vietnam	9
2.3	Organisational structure diagram BAA Training Vietnam	10
2.4	Flight simulator device	12

Chapter 1

OVERVIEW ABOUT PROJECT

1.1 Reasons For Choosing The Topic

During the time of entering the internship unit, after being briefly introduced to the systems, components and equipment at BAA Training Vietnam, accompanied by the instructor's suggestion, I realized the importance of the system. The importance of applying flight simulators in pilot training.

But because the practice process is not too long to understand all the functions of the device. Since then, I have chosen the topic of learning about the maintenance process of the flight simulator and the components related to the flight simulator for this graduation internship.

1.2 The Target of Research

1.3 Research Methods

1.4 Research Scope

Chapter 2

OVERVIEW ABOUT BAA TRAINING VIETNAM

2.1 History Of Formation And Development

BAA Training Vietnam is a subsidiary of BAA Training - one of the leading aviation training center in Northern Europe. Specializes in providing training and training programs for pilots.



Figure 2.1: BAA Training Vietnam logo

In 2018, BAA Training targets the Vietnamese market and establishes a headquarters in Vietnam with the goal of establishing a quality aviation training organization with a training program based on EASA's quality standards - European Aviation Safety Agency, for students from inexperienced flying to training to upgrade the captain. BAA Training certifications are approved by the CAAV.

- **Address:** 99 Le Van Viet street, Tang Nhon Phu A ward, District 9, Ho Chi Minh city, postal address 71207
- **Hotline:** +84 28 389 739 39
- BAA Training Vietnam is CAAV approved ATO providing EASA standard aviation training solutions in Asia-Pacific region.



Figure 2.2: Headquarter of BAA Training Vietnam

2.2 Field Of Activity

BAA Training Vietnam specializes in providing training services ATPL - Transport pilot license for pilots with CPL certificates. This is a course for pilots who want to work for airlines because according to regulations, a pilot's license is required to fly a transport aircraft to control aircraft for airlines. Moreover, if there is no need to work for the Airline, you can still study according to your wishes.

In addition, BAA Training Vietnam also provides an integrated training program ATPL(A) for students who do not have flight experience. With this program, upon completion, students will receive an ATPL Frozen license which includes a CPL certificate, instrument flight rating on IR multi-engine aircraft and ATPL theory. In order to prepare students with the necessary knowledge of the job of flying an aircraft, they can control commercial multi-engine aircraft through theoretical, practical and coordinated training with a multi-member MCC crew.

BAA Training Vietnam also provides Type Rating training services for Airbus A320, Boeing 737 NG, ATR 42/72 aircraft. After completing the course, students will receive a rating for the type of aircraft corresponding to the type of aircraft that the student takes the assessment test.

In addition, there are training programs specifically designed for airlines at the request of the airline and a number of other training services such as captain promotion, periodic assessment of pilot capacity, experience flight test.

2.3 Organizational Structure

BAA Training Vietnam has a professional organizational structure with highly qualified and experienced human resources to ensure that the output quality of students fully meets the standards prescribed for this position. pilots' names as well as company performance.

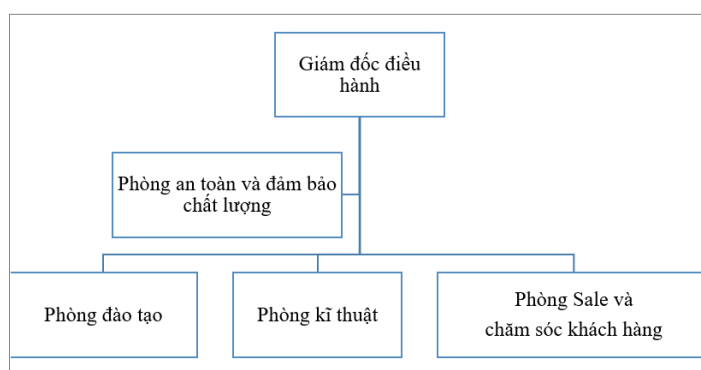


Figure 2.3: Organisational structure diagram BAA Training Vietnam

2.3.1 Managing Director

To be the legal representative of BAA Training Vietnam on the legal side, to sign the contract and to be the spokesperson for the company.

Responsible for managing all business activities to ensure that these activities comply with the provisions of Vietnamese law, the guidance of the Ministry of Transport, the Civil Aviation Administration of Vietnam as well as legal documents.

At the same time, he is responsible for running the company's activities, reviewing and recruiting personnel and appointing the positions of Heads of Training, Technical, Sales and Customer Care departments.

In addition, the CEO also performs other obligations and powers specified in the company's internal documents.

2.3.2 Quality Assurance Department

The main task is to ensure that the company's activities always comply with the quality regulations issued by BAA Training Vietnam internally and required by the Civil Aviation Authority of Vietnam.

Along with that, it is a tool to support the CEO in formulating policies and standards for aviation training, company operation or human resource quality.

2.3.3 Training Department

Develop training standards according to the requirements specified in the aviation safety regulations - Section 7 on Airline Officer Licenses.

Responsible for training, training students and supervising the company's training program to ensure service quality, detect hazards in the process of operation.

BAA Training Department includes:

- Head of training
- Flight instructor
- Ground instructor
- Training and service development department

2.3.4 Technical Department

Ensure that the training equipment at the company meets technical standards and is always in stable condition through regular inspection and evaluation activities. When detecting errors, they must notify the Executive Director for timely resolution. In addition, the technical department is also responsible for preparing equipment for students before the lesson begins.

2.3.5 Sales And Customer Care Department

Consulting and supporting students to learn information about the company's services. Answer questions and complaints of students during the learning process. Support students when needed and manage the company's social networking sites to reach and attract new students.

2.4 Main Resources

2.4.1 Infrastructure

BAA Training Vietnam's training facility is built on a 3000 m^2 site with 2 floors.

The first floor includes:

- 2 Simulated cockpit devices A320, technical and maintenance department, spare parts warehouse
- 1 Storage room
- 4 Classrooms
- 1 Dining room
- 1 Meeting room

The second floor includes:

- 4 Offices
- 5 Briefing – room
- 1 ATP training room, air transport pilot theory
- 5 Classrooms
- 1 Living room

2.4.2 Training Equipment

Training equipment at BAA Training Vietnam includes:

- Flight simulator Airbus A320neo, Airbus A320ceo
- Flight training equipment CAE 400XR
- Personal computers and tablets for students and pilots
- Projector, headset, recording software for learning
- Other equipment: lights, air conditioners, writing boards, fire prevention and fighting systems...



Figure 2.4: Flight simulator device

2.5 Performance results 2019 - 2020

Participating in the Vietnamese market since 2018 but BAA Training Vietnam officially went into operation in 2019 after completing the construction and assembling of equipment. Therefore, the operation time of the center up to now is less than 2 years. However, the operating results of BAA Training Vietnam still have a good signal.

In the past year 2020, BAA Training Vietnam was granted the UPRT training certificate - Upset Prevention and Recovery Training for the first A320 airplane in Vietnam for the purpose of improving the pilot's ability as well as the level of flight safety during flight performance.