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## **E-LEARNING SOFTWARE OF TCAS**

Warning of dangerous convergence of aircrafts in the air is one of the most important tasks of safety flights, especially in relentless with busy air routes and airports. Solving of conflicts is the function of an on-board warning system of dangerous convergence aircraft TCAS. The presence on board of such a navigation system is an essential requirement for flying in most countries. TCAS continuously analyzes the airspace around the aircraft, during the flight. In case of threat of dangerous approach of other aircraft, the system notifies the driver about the dangers of using visual and audio messages. Flight crew must quickly perceive and respond to commands of TCAS.

The TCAS training system is very useful in the aviation branch. Every pilot and air controller must know how it operates, the principles of work of TCAS, different commands and various signals. Leading producers of the navigational equipment such as Honeywell and Rockwell Collins develop and constantly improve TCAS.

Nowadays in the world we have some simulators to train the specialists in the air traffic systems. TCAS 2000 (Change 7) is a set of tools for studying the functioning of the onboard collision avoidance system in the air. Therefore, this training system can be used in aviation schools and airlines to train pilots of civil aviation. But here we have only electronic book without a simulator of TCAS.

ARINC offers TCAS Version 7 training for pilots, principal operating inspectors, FAA personnel, and many others. This computer-based training provides an overview of the TCAS Version 7. And the last one is ACSS training system. The training course teaches students system description, flight operations, maintenance procedures, interface and general aircraft maintenance procedures. You can easily use it in the on-line mode. But those systems are too expensive, so the conclusion that we've done was the next: it is needed to create a new training system; which would include testing system, simulator and electronic book.

We can offer for you our electronic training system which consists of electronic book. It is easy to use, because it is interactive with help of which you can get or improve your knowledge of TCAS. Book contains such items introduction, structure of TCAS, principle of the work, messages of TCAS, controlling, information display, voice messages, and display defects.

If you want to check your knowledge, which you get during your learning of our electronic book, here we have a testing system, which will help you to control your knowledge. Test consists of many questions. Results or information about training to testing you can obtain on your email, because we have on-line registration. If during the learning of traffic and alert avoidance system by our electronic book, you will have difficulties, you can go to the glossary, where you will find explanation for all the unfamiliar words.

In order to expand your knowledge you can easily use links that we have in our training system.