Abstract

Doctoral dissertation entitled "Modern Simulation Tools in the Training and Enhancement of Professional Competencies of Cabin Crew," presents research on the impact of flight simulators on the development of professional competencies and on the ability to perform key standard and emergency tasks carried out by cabin crew during their work on board passenger aircraft.

The dissertation includes an analysis of the literature and regulations in the field of aviation safety governing the training of a selected group of aviation personnel, as well as a general characterization of aviation training. It also describes the origin, development, functions, and types of flight simulators used in personnel training processes and their significance for ensuring the safety of flight operations.

The main part of the dissertation presents the organization and course of the research conducted using simulation tools of the Polish Aviation Group, as well as an analysis of the obtained results. The skills and efficiency in performing simulator tasks were compared between two groups of cabin crew: individuals after initial training and individuals with professional experience.

The research section includes an analysis of the study results along with statistical processing, which shows that there is a significant difference between the compared groups in terms of the total score from all simulator tasks performed during the practical examinations. Cabin crew members with professional experience achieved significantly fewer points across all tasks compared to cabin crew members after initial training.

Keywords

Safety, civil aviation, cabin crew, cabin crew training, flight simulators.