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# ANALYSIS OF DIFFERENT TEST RESULTS ACHIEVEMENT SAFETY AVIATION STUDENTS VOCATIONAL EDUCATION IN INDONESIA USING ATC SIMULATOR LABORATORY AND AFIS MANUAL

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## ***Abstract***

In the practice of air traffic services, Air Traffic Service students using 2 laboratories directly in carrying out practicums, namely AFIS Manual Laboratory and Laboratory ATC simulator, of course, there are different quality achievements obtained by students in undergoing air traffic service practicum. In the practice of air traffic service there are 4 (four) exercises or important problems that greatly affect student achievement known as "abnormal situation exercise", among others: (1) Traffic Info exercise, (2) Communication Failure exercise, (3) Urgency exercise, and (4) emergency exercise. Which students must complete 4 (four) exercises well before undergoing the final exam. By using 2 different laboratories, of course, there are differences in air traffic control performance in "abnormal situation exercise". This study used a different independent sample test to 96 airport ATS students who were carrying out education at aviation schools in Indonesia and divided the classes into 2 different class groups and took scores from the group of students who carried out air traffic service using the ATC Simulator laboratory and AFIS manual laboratory by taking scores on traffic info exercise, Communication failure exercise, urgency exercise, emergency exercise, and taking the average learning value of air traffic control to look for differences in student achievement in air traffic service using 2 different laboratories. The results of this study found that there were differences in student achievement in carrying out air traffic service using 2 different laboratories and the results stated that the learning results of students who used atc simulator laboratories had higher scores than students who used AFIS Manual Laboratory.

**Keywords :** *ATC Simulator, AFIS Manual, Achievement students Air Traffic Service*

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