



Commercial Aviation with a Focus on the European Market

Travelers Executive Group

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Abstract

This project is about an educational trip that will give a group of Embry-Riddle students from different majors the opportunity to gain a different perspective of the Aviation industry. The project is composed of a visit to major aviation companies in two different cities: Toulouse in France and Frankfurt in Germany, with the idea to have real-world exposure and be able to compare different viewpoints, expectations, and future projects. Below are the logos of all the companies that Travelers Executive Group's members visited.



Figure 1: Frankfurt Airport, Germany



Partners

Office of Undergraduate Research
Annual Fund Committee
Student Government Association
College of Business
College of Aviation
Alumni Relations Office
Office of Global Engagement
Embry-Riddle Worldwide
Project Advisor: Dr. Curtis

Methodology

To measure the increase in knowledge during the trip, students were tested before and after the trip. This trip helps to show how essential site visits are. Comparing both tests shows how much students knew about the airline industry, aircraft manufacture, and the European market before the trip and how much students learn from such site visits.



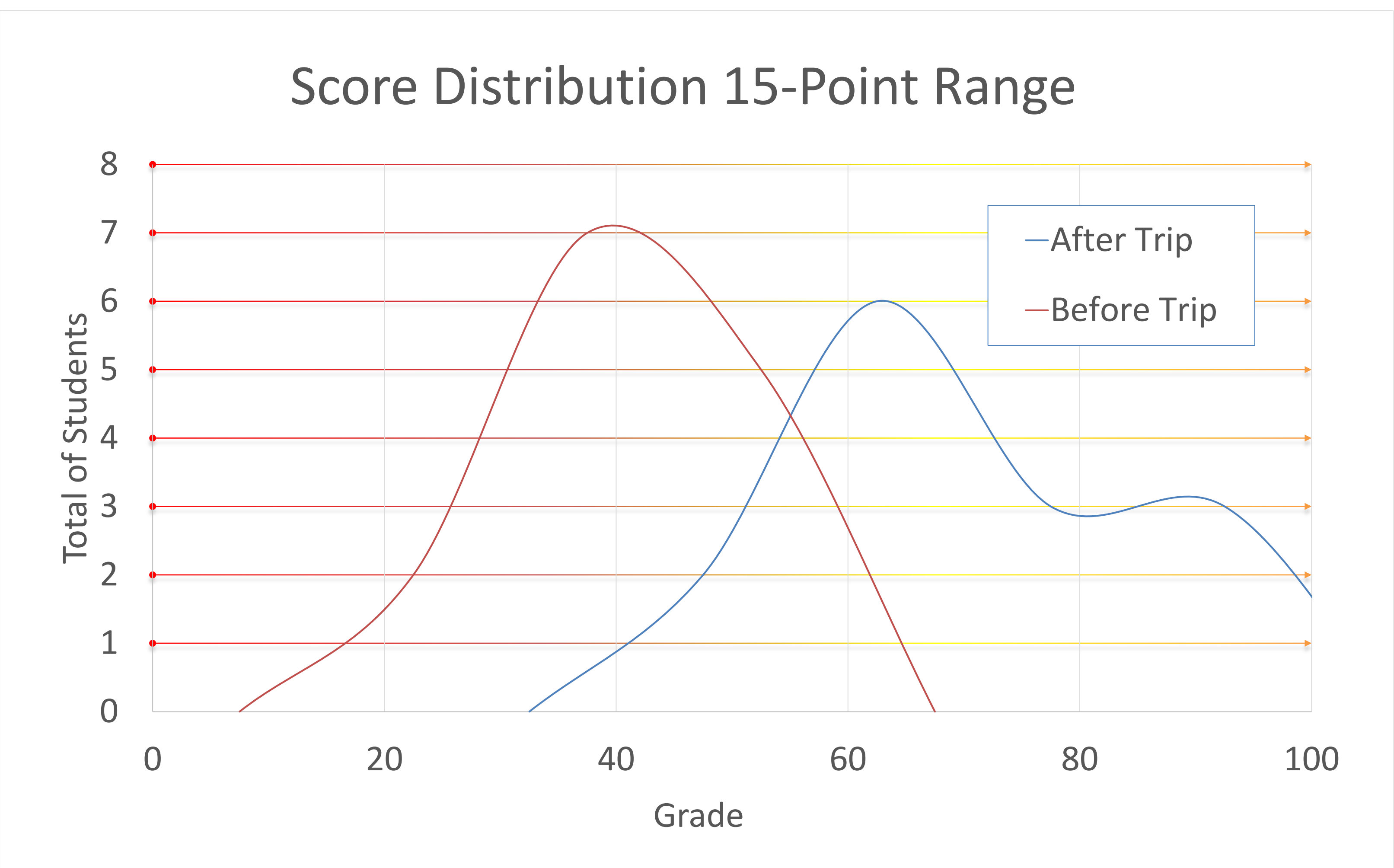
Figure 3: Condor Headquarters, Germany



Figure 2: Condor Technik, Germany

At Lufthansa and Condor, students visited the operations control center, and visited their technical department's hangar where they learned about airline operations and maintenance engineering. At Frankfurt Airport, students toured around the airport to observe airport operations and management. Finally, the group visited the Airbus' final assembly line and the Aeroscopia Museum where they learned about the history of Europe's aviation industry.

Results



Test before the trip
Average: 42.27
Lowest: 21.08
Highest: 58.41

Test after the trip
Average: 70.44
Lowest: 53.28
Highest: 90.56



The traveling group did not perform well before the trip
The industrial visits helped students boost their grades by 28 points!
The group was too small to consider patterns based on age, degree, etc.
And it was only one week!

Students were able to learn about different topics:
Airline Management, Flight Operations, Pilot Operations, Route Planning, Customer Service, Aircraft Maintenance, Aircraft Manufacture and Sales



Figure 4: Lufthansa Technik, Germany



Figure 5: Tour Around the Rhine River

Conclusion

Industrial visits are indeed beneficial towards a student's career. Test one demonstrated how little students knew about this topic, and only one week was enough to boost their test results by more than 26%. This trip was more efficient than the new Airbus A350! (25% more efficient than older, similar aircraft). Now that these visits have proven to be of great benefit, student leaders and university departments should consider and support these learning methods.



Figure 6: Lufthansa OCC Department, Germany