

Media Assignment #1

Media Title: 21st Century Jet: The Building of the 777 (Part 1: To Design a Plane)

Length: 55 minutes

Location: LRC, Bayside Building, TCC - Virginia Beach Campus

Assignment:

View the video listed above and complete the assignment below and submit it to the instructor by the assigned due date.

Fill in the blank in each part below or answer the question.

1. Boeing took a risk in beginning a five billion dollar project to design a new plane while the country was in an economic _____.
2. Was the Boeing 777 designed primarily for domestic or overseas flights?
3. Name Boeing's main two competitors. _____ and _____
4. The Boeing 777 has _____ (how many?) engines.
5. Boeing needed a "launch customer" to make the design of a new plane feasible. _____ Airlines agreed to spend 3.5 billion dollars to buy 34 Boeing 777's before the plane existed.
6. Boeing engineers designed a new state-of-the-art electronic flight control system called "_____ by _____."
7. What color was considered to be best for the cockpit area? _____
8. Engineers were even involved in the design of the lavatory seats. They added a mechanism to the seat to eliminate the _____.
9. An important test was performed on the mechanism to open the airplane doors. In order to pass the test, the mechanism had to be able to open the door when the airplane was covered with ice up to _____ inches thick.
10. Write 1-2 paragraphs discussing the advantages of designing the 777 using EPIC, the 3D computer program powered by several mainframe computers.
11. Write 1-2 paragraphs describing why Boeing began manufacturing some parts of the plane before other parts had even been designed.
12. Some engineers like working on a huge project like the Boeing 777 with thousands of other engineers while some engineers prefer to work for smaller companies with just a few engineers. Write 1-2 paragraphs discussing the advantages of each type of job. Which type would you prefer?