Task 9

The role of ICT in making aviation safer or more efficient:

Information and Communication Technology (ICT) plays a big role in making aviation safer and more efficient. In aviation, ICT includes computers, software, and communication systems that help pilots, air traffic controllers, and airport staff work together smoothly.

For safety, ICT helps by improving communication between pilots and air traffic controllers. This reduces misunderstandings and helps avoid accidents. Modern radar systems and tracking software allow controllers to see the exact position of every airplane, which helps them guide flights safely, especially in bad weather or busy airports.

ICT also helps pilots by providing real-time information about weather, flight paths, and aircraft systems. This helps them make better decisions and respond quickly to any problems. Aircraft maintenance is also improved by ICT; sensors on planes send data to ground crews, allowing them to fix issues before they become dangerous.

For efficiency, ICT speeds up airport operations. Automated check-ins, electronic boarding passes, and baggage tracking reduce waiting times and errors. Flight scheduling and air traffic management software optimize routes and reduce delays, saving fuel and time.

In short, ICT connects people and machines in aviation, making flying safer, smoother, and faster for everyone.