

# Boeing etops guide volume iii

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**What is the ETOPS significant system?** Means an airplane system, including the propulsion system, the failure or malfunctioning of which could adversely affect the safety of an ETOPS flight, or the continued safe flight and landing of an airplane during an ETOPS diversion.

**What is an adequate airport in ETOPS?** Adequate Aerodrome: is an airport that meets the landing performance requirements of the aircraft i.e. Runway length, ATC, Lighting, Communications, weather reporting, Navigation Aids, airport facilities and at least one instrument approach. Adequate Airports are selected at the time of planning ETOPS' routes.

**Why do we have ETOPS alternates?** ETOPS Alternate — An airport that meets stated requirements for planned diversion use and at which the weather conditions are at or above operating minimums specified for a safe landing.

**How much fuel does a Boeing 767 hold?** The Boeing 767-300F cargo compartment is equipped with a cooling and air heating system that is suitable for transporting perishable goods and livestock. Maximum fuel capacity is 23,980 U.S. gallons (90,770 L). The 767-300F is unable to carry ordinary Unit Load Devices.

**What is the ETOPS 60 60 rule?** In 1953 with piston engine reliability and aircraft performance improved, the CAA introduced a "60-minute rule"; restricting twin-engine aircraft to a 60-minute diversion area (at single-engine cruise speed). There was some additional flexibility beyond this limit with special approval.

**What is ETOPS-120 minute rule?** There are currently four standard ETOPS ratings: ETOPS-120, ETOPS-180, ETOPS-240, and ETOPS-330. The -120 rating allows an aircraft to fly routes that keep it within 120 minutes flying time (on one

engine) of the nearest suitable airport.

**What plane has the highest ETOPS rating?** Today, the best ETOPS certification record is 370 minutes, for the Airbus A350, powered exclusively by the Trent XWB. This maximum diversion time, of six hours and 10 minutes, is equivalent to a maximum diversion distance of 2,500 nautical miles (4,630 km), a civil aviation industry record.

**What is the current ETOPS rule?** In 1988, it was again extended to a 180-minute maximum. Today, this has increased to a 240-minute ETOPS rule, but it is only approved in certain circumstances. All aircraft must be ETOPS certified and approved by the FAA first. At Sheffield School of Aeronautics, we offered our first ETOPS class on July 11, 1992.

**What ETOPS rating is the 777?** The Airbus A350 boasts a 370 ETOPS certification whereas the Boeing 777 holds an ETOPS 330. This means that these aeroplanes can practically fly in a straight line to any destination in the world.

**What are ETOPS requirements?** (1) The airplane-engine combination must be type-design-approved for ETOPS of at least 120 minutes. (2) The certificate holder must operate in accordance with the ETOPS authority as contained in its operations specifications. (3) The certificate holder must comply with the maintenance program requirements of § 121.374.

**What does 180 minute ETOPS mean?** Essentially, ETOPS 180 means that any twin engine airliner can fly transoceanic as long as they are within 180 minutes under single engine flight of an airport that can support their flight operations.

**What is critical point ETOPS?** The Critical Point (CP), or Equal Time Point (ETP), is when an aircraft is the same flying time from 2 potential en-route diversions. Calculation of appropriate CPs aids decision making when deciding courses of action following a significant event such as an engine failure or on-board medical emergency.

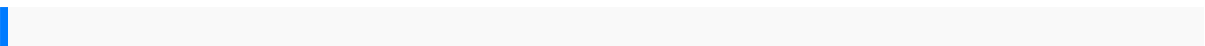
**Why is ETOPS important?** ETOPS is mostly concerned with extending flight paths so that airplanes could find a new airport to land their aircraft. Aircraft water landings are a kind of emergency airplane landings that are only used under extreme

circumstances and do not typically occur on flights.

**What is the primary purpose of the ETOPS program?** ICAO Requirements for Extended Range Twin-engine Operations (ETOPS) have been in place since 1985, when they were introduced to apply an overall level of operational safety for twin-engined aeroplanes which was consistent with that of the modern three and four-engined aeroplanes then flying, to which no restrictions ...

**What is the concept of ETOPS?** An extended Range Twin Operations approval (ETOPS) permits twin-engined aeroplanes to operate over a route that contains a point further than one hour flying time at the approved one-engine inoperative cruise speed. This is applicable to flights under standard conditions in still air from an adequate aerodrome.

**What is the significance of the critical Mach number?** In aerodynamics, the critical Mach number ( $M_{cr}$  or  $M^*$ ) of an aircraft is the lowest Mach number at which the airflow over some point of the aircraft reaches the speed of sound, but does not exceed it. At the lower critical Mach number, airflow around the entire aircraft is subsonic.



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