



# Twospeed Aviation Training

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## Syllabus: MNPS-NAT / ETOPS

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**This course is designed for:**

Flight crew

### Content

This course in MNPS/ETOPS complies with EU-OPS.

It is divided into 2 sections.

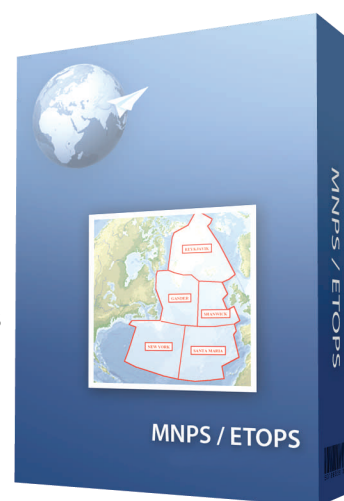
As a bonus material, the crew also views 10 videos, which describes various scenarios and traps.

- Computer Flight Plans
- Manual Flight Plans
- Aircraft Performance
- ATC Flight Plans
- Weather Data
- NOTAMS
- ETOPS MEL/CDL
- Rule Distance and Alternate Airports
- Fuel Loading
- Navigation Data Base
- Plotting Charts
- Organised Track System
- Flight Time Limitations
- Preparation Of Long Haul Nav Bag
- Captains Responsibilities - (International Requirements)

### Update

This course is updated after any major change in the regulations, or if a significant incident or accident occurs under the scope of this subject.

<b>Sections</b>	3
<b>Questions</b>	46
<b>Duration</b>	3 hours
<b>Language</b>	English
<b>Initial training</b>	Yes
<b>Recurrent training</b>	Yes






## Syllabus: MNPS-NAT / ETOPS

### Topics covered MNPS (including ETOPS)

- General requirements
- NAT MNPS 'X' requirement. Flight planning on OTS.
- Ordering of met.
- Format (USA and other).
- Symbols on prognostic charts.
- Calculation of wind components
- Applicability (en route, destination and alternate airports)
- Dissemination of pertinent information to operating crew.
- Method of use
- Applicability to flight.
- Performance degradation
- Crew notification
- Flight Crew training requirements.
- MNPS Airspace Vertical Dimension.
- State of Registry approval process for Aircraft / State of Operator.
- Radio stations within NAT-MNPS airspace.
- Mandatory carriage of HF communications equipment for flight in Shanwick OCA.
- Use of 121.5 and 123.45 frequencies.
- Who checks necessary approval(s) for NAT MNPS/ RVSM flight?
- Navigational requirements for aircraft planning to operate in MNPS Airspace.
- LRNS / Normal Short-Range Navigation Equipment.
- Non-qualified Crew according to ETOPS regulations.
- MNPS lateral and longitudinal separation; Mach No.
- Time-keeping device.
- Before entering MNPS Airspace.
- Oceanic Clearances requirements.
- How to ask for clearance.
- What an Oceanic Clearance must include.
- Listening watch / SELCAL watch.
- Navigation errors associated with Oceanic Clearances.
- ATC system loop error/ Waypoint Insertion Errors 5-minute in trail or "5 minutes GNSS" climb/descent procedure.
- How to comply when receiving a restricted clearance.
- Communications failure while operating or proposing to operate in NAT Region.
- On-Board HF Communications Equipment Failure Poor HF propagation conditions ("HF Blackouts"). Operation of Transponder.
- Equipment required for unrestricted operation in MNPS Airspace.
- Approval for NAT MNPS operations with only single LRNS.
- Navigation system failure before / after entering MNPS Airspace.
- Deviation around severe weather. ICAO Flight Plan.
- Strategic Lateral Offset Procedures (SLOP). RNP10.
- Other routes within NAT MNPS Airspace

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