| DO NOT DESTROY THIS TEST REPORT This Test Report must be presented for retesting or certification. | | | | DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION AIRMAN WRITTEN TEST REPORT (RIS: AC 8080-2) | | | | | | | 545 A | |
|--|----------|----------------------------------|------------|---|------------|---------|-------|---|---------------|---|-----------------------|--|
| TEST | | | | GRADES BY SECTION | | | | | FAA | TEST DATE | EXPIRATION | |
| TAKE NO. | TITLE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | NO. | TEST DATE | DATE | |
| 02 | FN | 90 | 92 | 88 | 95 | | | | GL 31 | 04-02-81 | 04-30-83 | |
| EXPIRATION DATE (Last day of month) *See codes on reverse side: | | | | | | | | | | The first char and third char tember as sho | racters, the year. Ja | month; the second anuary through Sep- arough 9: October as |
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AC FORM 8080-2 (10-79)

ISSUED BY:

ADMINISTRATOR
FEDERAL AVIATION ADMINISTRATION

FLIGHT NAVIGATOR

Written Test Subject Matter Outline

To find the questions you missed (by knowledge areas), compare the subject matter codes on the enclosed Airman Written Test Report, AC Form 8080-2, with the coded items on the subject matter outline below.

The total number of questions you missed cannot be determined by the number of subject matter codes shown on the enclosed examination report, since one or more questions were missed in each subject matter item identified.

FEDERAL AVIATION REGULATIONS AND ICAO RULES OF THE AIR

- A. FAR 63--Certification: Flight Crewmembers Other Than Pilots
 - A01. Subpart A, General
 - A02. Subpart C, Flight Navigators
- B. FAR 91--General Operating and Flight Rules
 - BO1. Compliance with ATC clearances and instructions (91.75)
 - BO2. Altimeter settings (91.81)
 - BO3. Minimum altitudes for IFR operations (91.119)
 - B04. IFR cruising altitude or flight level (91.121)
- C. FAR 121--Certification and Operations: Domestic, Flag, and Supplemental Air Carriers and Commercial Operators of Large Aircraft
 - CO1. Airplane performance--applicability (121.171)
 - CO2. Airplane performance--general (121.173)
 - CO3. Transport category airplanes: reciprocating engine powered: weight and takeoff limitations (121.175 and 121.177)
 - CO4. Transport category airplanes: turbine engine powered: takeoff limitations (121.189)
 - CO5. Transport category airplanes: turbine engine powered: landing limitations: destination and alternate airports (121.195 and 121.197)
 - CO6. Flight recorders (121.343)
 - CO7. Flight navigator (121.389)
 - CO8. Crewmember emergency training (121.417)
 - CO9. Flight navigator training (121.426)
 - ClO. Flight time limitations (121.493/ 121.483)
 - Cll. Dispatch or flight release (121.613 and 121.615)
 - Cl2. Alternate airport, destination and departure (121.621 and 121.617)

- Cl3. Alternate airport weather minimums (121.625)
- C14. Dispatching authority (121.593 and 121.595)
- C15. Fuel supply (121.641 and 121.645)
- C16. Factors for computing fuel required (121.647)
- D. ICAO--Rules of the Air-Annex 2
 - General flight rules, Chapter 3
 - DO2. Visual Flight Rules, Chapter 4
 - DO3. Instrument Flight Rules, Chapter 5

FUNDAMENTALS OF AIR NAVIGATION

- E. Earth and Coordinate Systems
 - E01. Chart projection features
 - E02. Direction--true, magnetic, compass, grid
 - E03. Great circle and rhumb-line courses
 - E04. Position referenced to parallel 60°N.
- F. Celestial Navigation
 - F01. Basic definitions and relationships
 - FO2. Elements of astronomical triangle
 - FO3. Time diagrams and the air almanac
 - F04. Star identification
 - F05. Errors effecting LOPs
 - F06. Special solutions related to upper and lower transits of the local meridian
- G. Navigation Instruments and Related Theory
 - GO1. Compass systems
 - GO2. Airspeed indicators and machmeters
 - G03. Altimeters
 - GO4. Temperature indicators
 - GO5. Absolute altimeters
 - G06. Sextants
- H. Air Navigation Systems--Operating Principles
 - HO1. Loran
 - HO2. Doppler
 - H03. Inertial
 - H04. Other

I. Altimetry Procedures

- IO1. Solution for drift
- IO2. Pressure line of position

J. Flight Planning Procedures

- JO1. Route and altitude selection
- J02. Cruise control techniques J03. Decision points--PNR/ETP

METEOROLOGY

K. Basic Weather Principles

- KOl. Air mass characteristics
- KO2. Winds and pressure systems
- KO3. Atmospheric stability and lapse rates
- KO4. Fronts and frontal weather
- K05. Thunderstorms
- K06. Fog
- K07. Precipitation products
- KO8. Troposphere details

L. High Altitude Weather Details

- LO1. Jet streams /
- LO2. Clear air turbulence
- LO3. Tropopause
- LO4. Geostrophic wind
- LO5. Forecasting weather movement
- L06. Stratosphere details

M. Aviation Weather Reports and Forecasts

- MO1. Hourly sequence reports
- MO2. Terminal forecasts
- MO3. Area forecasts

N. Weather Charts--Theory and Interpretation of Data

- NO1. Surface
- NO2. Significant weather
 - NO3. Constant pressure
 - NO4. Tropopause/vertical wind shear

PLOTTING AND COMPUTING

O. Flight Planning Procedures

- 001. En route time
- 002. Fuel requirements and endurance
- 003. Planned takeoff or landing gross weight
- 004. Decision points

P. Positioning

- POl. Dead reckoning procedures-advance estimates and positions
- PO2. Celestial fixes
- PO3. Loran and radar fixes

PO4. Combined fix methods

- PO5. Wind between fixes, computer solutions
- PO6. Wind by air plot
- PO7. Headings and courses--compass/grid PO8. ETAs
- PO9. Airspeed to maintain schedule
- P10. Drift by altimetry

Q. Special Solutions

- Q01. Latitude by meridian altitude--upper and lower transit
- Q02. Latitude by Polaris
- Q03. Compass deviation
- Q04. Star identification--star diagrams
- Q05. Search patterns
- Q06. Date/time calculations
- Q07. Line of sight computation
- QO8. Fixing position on coast line

STUDY MATERIALS

Federal Aviation Regulations

Part 63--Certification: Flight Crewmembers Other Than Pilots

Part 91--General Operating and Flight Rules

Part 121--Certification and Operations: Domestic, Flag, and Supplemental Air Carriers and Commercial Operators of Large Aircraft

ICAO Rules Of The Air

May be ordered from:

International Civil Aviation Organization (Attention: Distribution Officer) P.O. Box 400, Succursale: Place de 1'Aviation Internationale 1000 Sherbrooke Street West Montreal, Quebec, Canada H3A2R2

Flight Navigator Written Test Guide, AC 63-2A Air Navigation, H. O. Pub. No. 216, U.S. Navy Hydrographic Office Air Navigation, AF Manual 51-40 Aviation Weather, AC 00-6A Aviation Weather Services, AC 00-45A

Orders for study materials should include remittance by check or money order made payable to the Superintendent of Documents, and should be addressed to:

> Superintendent of Documents U.S. Government Printing Office Washington, D.C. 20402.