

ADVANCED PILOT TRAINING OUTLINE

1. Advanced Navigation

- **Autopilot and Flight Director Operations**

 - Fundamentals and Displays

 - Enroute Navigation Modes

 - Approach Modes

- **GPS**

 - Enroute

 - Approaches

 - Navigation Failure Modes

- **LORAN**

- **RNAV**

- **Overwater and Class II Navigation**

 - Navigation Gross Error Checks

 - Inertial or GPS Position Confirmation

 - Heading System Checks

 - Master Flight Plan

 - Plotting Charts

 - Navigation Failures and Dead Reckoning

 - HF and Position Reporting

- **EFIS**

 - Terminology

 - Displays

 - TCAS

 - WX

 - Range Selection

2. Crew Operation Fundamentals

- **Checklists**

 - Challenge and Response

 - Phase of Flight

 - Emergency Procedures

- **Standardized Callouts**

- **Cockpit/Crew Resource Management**

- **Briefings**

3. Single Pilot Operation Fundamentals

- **Cockpit Organization**

- **Autoflight Usage**
- Emergency Procedures Management

4. Advanced Operating Procedures

- **Standard Operating Procedures**

Checklist Discipline

Required Flight Documents

Master Flight Plan

Operating Cost Considerations

Terrain Analysis

Descent Planning

Turbocharging and Pressurization

Stabilized Approach Concept

Low Visibility Approach Fundamentals

- **High Density Operations**

Approach and Departure Planning

SIDS/STARS

Wake Turbulence

- **High Altitude and Long-Range Operations**

Oxygen

Turbocharging

Pressurization

Physiology

- **Night Operations**

5. Weather Detection and Avoidance

- **Radar**
- **Stormscope**
- **Ice: De-Ice and Ant-Ice Systems**
- **Applied Windshear Avoidance**

6. International Operations

- **Flight Planning Resources**
- **Airspace Classifications**

ADIZ, FIR, ATC Boundaries

Position Reporting

- **Regional Operating Procedures**

Country Specific Information

Discrete Air-Air Frequencies

Customs, Immigration, and Security

- **Overwater Operations**

 - Required Equipment

 - Navigation Methods

 - Communications

7. Safety and Risk Management

- **Incident and Accident Trends**

- **Safety Focus Areas**

 - Unusual Attitude/Upset Recoveries

 - Engine Failure Procedures

 - Runway Incursions

 - Controlled Flight Into Terrain (Avoidance)

- **Case Studies**

8. Emergency Landings and Survival

- **On-Airport**

 - Crash-Fire-Rescue Equipment

 - Emergency Evacuation

- **Off-Airport Forced Landings**

- ***Ditching at Sea***

- ***Survival Basics***

On Land

At Sea