

IFS CSO PLAYBOOK



05 OCTOBER 2009

FCIF 10-29

Playbook Use

The Doss IFS CSO Playbook will be used in conjunction with the IFS CSO Syllabus to provide a detailed plan for students and instructors to prepare for individual missions. Use of the IFS CSO Playbook ensures that each student is exposed to all required topics in a logical sequence, using a building block approach to learning.

While the IFS CSO Playbook is directive in nature, it is meant for the student who enters training with little or no experience in aviation. It is not meant to restrict IP flexibility. If a student indicates understanding of a listed topic, and time permits, the IP should introduce or review other appropriate information. The student is responsible for studying all pre-flight study assignments and introduced maneuvers, and is expected to be able to discuss the designated Emergency Procedures and General Knowledge topics. Due to limited time, the IP may only sample a portion of the General Knowledge topics to ensure the student has a suitable understanding of the particular topics. As students progress through the missions and demonstrate strengths and weaknesses, IPs are expected to tailor mission profiles and ground training topics to maximize student learning. Consult with your Flt/CC before deviating from the playbook concerning actual flight maneuvers.

Instructors and students will reference the playbook prior to the mission to ensure all required briefing topics are covered and/or studied. "Recommended" reading assignments in the FAA handbooks are not mandatory but are useful for general knowledge study. Inadequate student preparation for the sortie may result in a cancelled sortie and an UNSAT grade.

Emergency Procedures (EPs)

EP training is a significant element of the student's training while attending IFS. To establish the end result, specific/detailed EP training will be accomplished on every mission. **Students are ultimately responsible for their training, and must assist their IPs with this requirement.** All EPs covered by Stan/Eval/USEM during morning "Stand Up" may be logged by each student. Additionally, students may log EPs discussed "in direct consultation" with any IP.

Students are required to study all the EPs in the Pre-Flight Study Assignment section of the Playbook prior to that mission. However, only the EP listed in the EP of the Day (Motherhood) section must be covered during the Motherhood (student) section of the Mission Briefing.

EPs listed in the TableTop EP (Pre/Post-Flight) section will be administered similar to morning "Stand-Up"... i.e. they require a complete analysis, checklist reference (as applicable), and will be brought to a logical conclusion. For specific guidance reference the DA-20-C1 EMERGENCY PROCEDURES TRAINING GUIDE.

Specific EPs have been published for each mission to ensure standardization. Additional EPs may be introduced at IP discretion, time permitting. Specific EPs are not published after N304. Reference the EP list in TIMS to see which EPs may not have been accomplished or have not been recently accomplished. IPs/Students should ensure they accomplish and log (in TIMS) all of the EPs listed **prior to N490**.

N101

Pre-Flight Study Assignment

- **EPs:** Refer to DA-20-C1 EMERGENCY PROCEDURES TRAINING GUIDE
 - Starter Relay Failure
 - Abort
 - Emergency Ground Egress
 - Departing a Prepared Surface
- **IFG:** -- Planning/briefing/TOLD (white pages)
-- Departure/arrival/waypoint identification (yellow pages)
- **Local Flying Procedures:**
 - Chapter 1, General Procedures
 - Chapter 2, Ground Operations
 - Chapter 3, Patterns, Takeoffs, and Landings
 - Appendix G, Traffic Pattern Diagrams (Normal Pattern & Landing)
- **GK Topics:** (see below)
- **Pilot's Handbook of Aeronautical Knowledge (recommended):**
 - Chapter 2, Aircraft Structure
 - Chapter 3, Principles of Flight
 - Chapter 4, Aerodynamics of Flight, pg. 4-1 through 4-38
- **Airplane Flying Handbook (recommended):**
 - Chapter 2, Ground Operations
 - Chapter 3, Basic Flight Maneuvers
 - Chapter 5, Takeoffs and Departure Climbs
 - Chapter 7, Airport Traffic Patterns
- **Obtaining Weather & Winds**

Objectives – “Demo/Do”. Student practices basic aircraft control while adapting to the aircraft and performing basic maneuvers. **IP conducts the Mission Briefing, Motherhood/CRM Topics and Debriefing.**

Introduced Maneuvers

- | | |
|--|---------------------------------|
| - Engine Starting/Magnetos – DRY RUN (log in TIMS) | |
| - Ground operations | - Normal approach/landing |
| - Takeoff and climb | - Touch-and-Go |
| - Basic aircraft control/trim | - Area orientation and planning |
| - Climbs/descents/turns | - Clearing/collision avoidance |
| - Departure/Arrival | - Checklist use |
| - Traffic pattern | - Communication |

Recommended Maneuvers

- | | |
|-----------------------------------|---------------------------------------|
| - Pattern Demonstration (in Area) | - Adverse Yaw Demonstration |
| - Trim Demonstration | - Landing Attitude Demo (log in TIMS) |

EP of the Day (Motherhood)

- Emergency Ground Egress

TableTop EP (Pre/Post-Flight)

- Departing a Prepared Surface

N101 (continued)

General Knowledge (GK)

- G101, Aircraft Preflight/Postflight
- G102, Takeoffs and Traffic Patterns
- G103, Departures and Arrivals
- G104, Four Fundamentals
- A103, Aerodynamic Principles
 - Lift Principles
 - Four Forces
 - Stall
 - Adverse Yaw
 - Stability
 - Turning Tendencies
- A104, Airplane Performance
 - Weight & Balance
 - Pressure/Density Altitude

Dollar Ride Discussion Topics

Note: The student should have attended the *Dollar Ride “P” Mission Brief* prior to meeting the IP for the Dollar Ride sortie. The following listing of topics should be sampled by the IP to ensure the student has an understanding of all the required items prior to stepping for the Dollar Ride sortie.

- Mission preparation (weather, NOTAMS, mission timing, TOLD, etc.)
- “Step” procedures and sign-out process
- Airsick bags and seat cushions (need to comfortably see the oil door hinge)
- FOD prevention (stow ID cards, FOD cans, post-flight inventory, etc.)
- Fire bottles (location & use)
- Cockpit organization to include use of the checklists, IFG and local area chart
- ***Inadvertent starter engagement prevention***
- GPS setup and usage (Map, TAS, Terrain)
- Taxiing techniques
- Basic aircraft control to include:
 - coordinated flight
 - composite crosscheck
 - known power settings
 - pitch pictures (level flight, climb, descent, glide, etc)
- Proper use of, and how to trim
- Clearing/collision avoidance (visual, aural & TAS)
- Departures/arrivals/profiles

Note: Inadvertent starter engagements can cause significant damage to the starter pinion gear and cluster gear. This damage causes unnecessary maintenance delays and substantial financial costs to repair the damage. Students receive training in inadvertent starter engagement prevention and are expected to use good judgment and professionalism in the operation of the aircraft. All inadvertent starter engagements must be immediately reported to maintenance and will result in a cancelled sortie, grounding of the student, and an UNSAT grade. Additionally, the student will require a mandatory counseling session with the Chief Pilot or Designated Representative/MTO prior to the next flight.

N201

Pre-Flight Study Assignment

- **EPs:** Refer to DA-20-C1 EMERGENCY PROCEDURES TRAINING GUIDE
 - Electrical Malfunction (Low Voltage on the Ground)
 - Electrical Fire on the Ground
 - Spin Recovery
 - Engine Fire During Flight
- **IFG:** -- Departure/arrival/waypoint identification (yellow pages)
-- Airport diagrams (green pages)
- **Local Flying Procedures:**
 - Chapter 4, Departures, Arrivals, and Area Work
 - Appendix C, Callouts
 - Appendix D, Challenge and Response
- **GK Topics:** (see below)
- **Pilot's Handbook of Aeronautical Knowledge (recommended):**
 - Chapter 5, Flight Controls
 - Chapter 6, Aircraft Systems, pg. 6-1 through 6-19, 6-25 through 6-32
 - Chapter 7, Flight Instruments, pg. 7-1 through 7-12, 7-15 through 7-26
- **Airplane Flying Handbook (recommended):**
 - Chapter 4, Slow Flight, pg. 4-1 through 4-2
 - Chapter 8, Approaches and Landings, pg. 8-1 through 8-13
 - Chapter 9, Steep Turns, pg. 9-1 through 9-2

Objectives – Continue “Demo/Do” and build on previous mission basics. Student refines basic aircraft control and practices previously introduced maneuvers while learning additional maneuvers. **IP conducts the Mission Briefing and Debriefing. Student briefs Motherhood/CRM topics.**

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Introduced Maneuvers

- Engine Starting/Magnetos – DRY RUN (log in TIMS)
- Landing Attitude Demo (if not previously completed – log in TIMS)
- Steep turns
- Slow flight
- Go-Around
- Navigation Procedures/GPS/Chart use
- Avionics setup (radio and GPS)
- Breakout (only if required)

EP of the Day (Motherhood)

- Spin Recovery

TableTop EP (Pre/Post-Flight)

- Engine Fire During Flight

General Knowledge (GK)

- G105, Steep Turns, Slow Flight and Stalls
- G107, Landings
- G109, Go-Arounds, Breakouts and Forward Slips
- A102, Aircraft Systems
 - Landing Gear and Brakes
 - Electrical System
 - Pitot Static System
 - Flight Controls
 - Vacuum System
 - Aircraft Flight Instruments

N202

***Note:** Beginning with N301, the IP will perform all abnormal pattern work (Pattern SFL, no-flap approach/landing, forward slip, go-around, etc.). Although the CSO student should attempt all these maneuvers as required in the N2xx block, proficiency performing normal approach/landings should be emphasized over proficiency performing abnormal pattern work.*

Pre-Flight Study Assignment

- **EPs:** Refer to DA-20-C1 EMERGENCY PROCEDURES TRAINING GUIDE
 - Engine Fire on the Ground
 - Engine Malfunction in Flight (Sufficient Runway Remaining to Land)
 - Gliding
 - Forced Landing
- **IFG:** -- Departure/arrival/waypoint identification (yellow pages)
-- General information (blue pages)
- **Local Flying Procedures:**
 - Appendix E, Waypoints
 - Appendix F, Radio communications
- **GK Topics:** (see below)
- **Pilot's Handbook of Aeronautical Knowledge (recommended):**
 - Chapter 6, Aircraft Systems, pg. 6-1 through 6-19, 6-25 through 6-32
 - Chapter 10, Aircraft Performance, pg. 10-1 through 10-20
- **Airplane Flying Handbook (recommended):**
 - Chapter 4, Stalls, pg. 4-3 through 4-12
 - Chapter 6, Ground Reference Maneuvers, pg. 6-1 through 6-9
 - Chapter 8, Approaches and Landings, pg. 8-13 through 8-17

Objectives – Continue “Demo/Do” and build on previous mission basics. Student refines basic aircraft control and practices previously introduced maneuvers while learning additional maneuvers. **IP conducts the Mission Briefing and Debriefing. Student briefs Motherhood/CRM topics.**

Introduced Maneuvers

- Landing Attitude Demo (if not previously completed - log in TIMS)
- Power-On and Power-Off Stalls
- Gliding
- Turns-Around-A-Point
- No-Flap Approach/Touch-and-Go

EP of the Day (Motherhood)

- Gliding

TableTop EP (Pre/Post-Flight)

- Forced Landing

General Knowledge (GK)

- G105, Steep Turns, Slow Flight and Stalls
- G106, Ground Reference Maneuvers
- A102, Aircraft Systems
 - Power Plant
 - Engine Ignition System
 - Aircraft Fuel System
 - Engine Oil System
 - Engine Air Induction System

N203

Note: Beginning with N301, the IP will perform all abnormal pattern work (Pattern SFL, no-flap approach/landing, forward slip, go-around, etc.). Although the CSO student should attempt all these maneuvers as required in the N2xx block, proficiency performing normal approach/landings should be emphasized over proficiency performing abnormal pattern work.

Pre-Flight Study Assignment

- **EPs:** Refer to DA-20-C1 EMERGENCY PROCEDURES TRAINING GUIDE
 - Engine Malfunction in Flight (Fuel Pressure Loss)
 - Engine Malfunction in Flight (Engine Running Roughly)
 - Engine Malfunction in Flight (Engine Stoppage)
 - Engine Restart (Propeller Windmilling)
- **IFG:** -- Departure/arrival/waypoint identification (yellow pages)
- Abnormal/Emergency (pink pages)
- **Local Flying Procedures:**
 - Chapter 5, Simulated Emergencies
 - Appendix G, Traffic Pattern Diagrams (No-Flap Landing, Pattern SFL)
- **GK Topics:** (see below)
- **Pilot's Handbook of Aeronautical Knowledge (recommended):**
 - Chapter 8, Flight Manuals and Other Documents
 - Chapter 9, Weight and Balance
 - Chapter 13, Airport Operations
- **Airplane Flying Handbook (recommended):**
 - Chapter 6, Ground Reference Maneuvers, pg. 6-1 through 6-9
 - Chapter 8, Approaches and Landings, pg. 8-25 through 8-35
 - Chapter 16, Emergency Procedures, pg. 16-1 through 16-11

Objectives – Continue “Demo/Do” and build on previous mission basics. Student refines basic aircraft control and practices previously introduced maneuvers while learning additional maneuvers. **IP conducts the Mission Briefing and Debriefing. Student briefs Motherhood/CRM topics.**

Introduced Maneuvers

- | | |
|-------------------------------|---|
| - Clock Usage on VNAV sorties | - <u>Pattern</u> Simulated Forced Landing |
| - S-Turns | - Forward Slips |

EP of the Day (Motherhood)

Engine Malfunction in Flight (Engine Stoppage)

TableTop EP (Pre/Post-Flight)

Engine Restart (Propeller Windmilling)

General Knowledge (GK)

- | | |
|---|------------------------------|
| - G106, Ground Reference Maneuvers | - G108, Emergency Procedures |
| - G109, Go-Arounds, Breakouts and Forward Slips | |
| - A105, Communications | |
| ● Radio Volume/Management | ● Transponder/Radar Services |
| - A106, Airport Operations | |
| ● Towered/Non-Towered Airports | ● Airport Signs/Lighting |
| ● Light Gun Signals | ● Runway Markings |
| ● Standard Traffic Pattern | ● Right of Way Rules |

N301

Note: *The student must have completed G112 (Enroute Navigation) prior to this sortie.*

Note: *For all VNAV sorties, the student should be prepared to brief 15 minutes prior to the normally scheduled brief time (dependent on IP availability), to allow additional time for the VNAV Route Briefing.*

Note: *Prior to the flight, the IP should discuss with the student when he/she is expected to fly, when the IP will fly, expectations for directing VNAV routes and monitoring area maneuvers/pattern work, and the crew concept philosophy when the IP is the flying pilot (checklist accomplishment, radio communications, clearing, area boundary monitoring, altitude callouts, etc.).*

Pre-Flight Study Assignment

- **EPs:** Refer to DA-20-C1 EMERGENCY PROCEDURES TRAINING GUIDE
 - Cabin Fire in Flight
 - Electrical Fire During Flight
 - Engine Restart (Propeller Stopped)
 - Precautionary Emergency Landing
- **IFG:** All (review)
- **Local Flying Procedures:** Chapter 6, VNAV Procedures
- **GK Topics:** (see below)
- **Pilot's Handbook of Aeronautical Knowledge (recommended):**
 - Chapter 15, Navigation, pg. 15-1 through 15-20
- **Airplane Flying Handbook (recommended):** All applicable sections (review)
- **VNAV Route Study/Waypoint Identification**
- **VNAV Checklists/Briefs**
- **Obtaining Route Weather & Winds**

Objectives – Student builds on basic aircraft control and situational awareness, while learning the following navigation basics: flight planning, chart interpretation, weather/wind analysis, dead reckoning and turn point briefings. **IP conducts the Mission briefing, VNAV route briefing and Debriefing. Student briefs Motherhood/CRM topics.**

Introduced Topics in the Prebrief

- | | |
|---|-------------------------------|
| - Altitude de-confliction | - Time, distance, and heading |
| - Clock-Map-Ground points | - Chart interpretation |
| - Turn point identification | - Turn point briefings |
| - Wind corrections to headings (mission planning) | - Jungle Rules |

EP of the Day (Motherhood)

- Engine Restart (Propeller Stopped)

TableTop EP (Pre/Post-Flight)

- Precautionary Emergency Landing

N301 (continued)

General Knowledge (GK)

- G112, Enroute Navigation
- A112, Advanced Navigation
 - Latitude/Longitude
 - GPS Operation (TRK function)
 - Flight Computer (E6-B)
 - Time, rate, distance
 - Wind and its effects
 - Determining relative wind
 - Groundspeed selection
 - Chart Symbology/Interpretation
 - Route Study
 - Big picture references (big to small)
 - Obstacles/Obstructions
 - Clock-Map-Ground points
 - Forced Landing locations
 - Collision Avoidance/TAS usage

VNAV Profile and Planning

The standard profile for VNAV sorties (except the LHX Route Abort) includes a minimum of two patterns, typically one abnormal (no-flap, pattern SFL, forward slip, touch-and-go, or go-around) flown by the IP, and one normal pattern flown by the student or IP. This will ensure maneuver continuity for pattern maneuvers. The student will usually continue to fly normal patterns to the maximum extent possible until the latter part of the N3xx block. However, emphasis will be placed on the student's proficiency with monitoring pattern work (both abnormal and normal patterns) over proficiency actually flying normal patterns. See notes on N303 and N304.

In addition to the pattern work, normal maneuver continuity for area maneuvers is also required (except for the LHX Route Abort sortie). **All crews (student/IP) must carefully plan each sortie to ensure the completion of minimum requirements (continuity) and any additional maneuvers/patterns as time allows.**

Some of the VNAV profiles (Daygo and Check) leave only a minimal amount of time for area maneuvers. In these cases, complete only the minimum maneuvers required (continuity) to prevent an extended sortie duration. Additionally, reduce transit time enroute (on the departure and arrival) by flying as fast as practical and use minimum delay entering/exiting the area. To compensate for lack of time on these profiles, use the extra time available on other profiles (Yak and Kramer) to complete extra area maneuvers beyond the minimum required (continuity). **It is understood that due to reasons beyond the crew's control some sorties may exceed the normal scheduled duration (1.4 hrs). However, use good judgment and prudence to keep the sorties as close to on-time as possible.**

N302

Pre-Flight Study Assignment

- **EPs:** Refer to DA-20-C1 EMERGENCY PROCEDURES TRAINING GUIDE
 - Electrical Malfunction (Total Electrical Power Failure)
 - Engine Malfunction in Flight (Insufficient Engine Power after Takeoff)
 - Landing with Defective Tire (Main Gear)
 - Diversion (IFG)
- **IFG:** All (review)
- **Local Flying Procedures:** Chapter 6, VNAV Procedures
- **GK Topics:** (see below)
- **Pilot's Handbook of Aeronautical Knowledge (recommended):**
 - Chapter 15, Navigation, pg. 15-1 through 15-20
- **Airplane Flying Handbook (recommended):** All applicable sections (review)
- **VNAV Route Study/Waypoint Identification, VNAV Checklists/Briefs**
- **Obtaining Route Weather & Winds**

Objectives – Student builds on basic aircraft control, situational awareness and previously introduced navigation basics (flight planning, chart interpretation, weather/wind analysis, dead reckoning and turn point briefings) while learning the following additional navigation basics: course/speed/time control corrections. **IP conducts the Mission briefing and Debriefing. Student briefs Motherhood/CRM topics and the VNAV route briefing.**

Introduced Topics in the Prebrief

- GPS Integration (TRK vs. MAG CRS)
- Course, speed, and time control corrections
- Inflight Fuel Calculations
- Area Simulated Forced Landing (two Area SFLs must be accomplished during sorties N302-N304)
- Any topics not previously accomplished

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EP of the Day (Motherhood)

- Landing with Defective Tire (Main Gear)

TableTop EP (Pre/Post-Flight)

- Diversion (IFG)

General Knowledge (GK)

- A109, Basic Navigation
 - Pilotage/Dead Reckoning
 - Radio Navigation/GPS
 - VFR Cruising Altitudes
 - Fuel/Alternate Planning
 - Magnetic Variation/Deviation
- Aeronautical Charts
 - Airports and airport data
 - Airspace (B,C,D,E)
 - VORs, MTRs and Victor Airways
 - Obstructions/topography

N303

Note: *If the student does not consistently perform normal approach/landings to a FAIR (3) level by the end of this sortie, the IP should perform this maneuver on all future sorties to allow the student to gain proficiency monitoring this maneuver.*

Pre-Flight Study Assignment

- **EPs:** Refer to DA-20-C1 EMERGENCY PROCEDURES TRAINING GUIDE
 - Landing with Defective Tire (Nose Gear)
 - VNAV Route Abort Procedure
 - Icing
 - Electrical Malfunction (Low Voltage During Flight/GEN Failure)
- **IFG:** All (review)
- **Local Flying Procedures:** All (review)
- **GK Topics:** (see below)
- **Pilot's Handbook of Aeronautical Knowledge (recommended):**
 - Chapter 14, Airspace
- **Airplane Flying Handbook (recommended):** All applicable sections (review)

Objectives – Student builds on basic aircraft control, situational awareness and previously introduced navigation basics: flight planning, chart interpretation, weather/wind analysis, dead reckoning, turn point briefings, VOR cross tuning, and course/speed/time control corrections. **IP conducts the Mission briefing and Debriefing. Student briefs Motherhood/CRM topics and the VNAV route briefing.**

Introduced Topics in the Prebrief

- Simulated VNAV Route Abort Procedure
- KLHX pattern entry/exit procedures (low approach only)
- Any topics not previously accomplished
- Area Simulated Forced Landing (two Area SFLs must be accomplished during sorties N302-N304)

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EP of the Day (Motherhood)

- Icing

TableTop EP (Pre/Post-Flight)

- Electrical Malfunction (Low Voltage During Flight/GEN Failure)

General Knowledge (GK)

- A108, Airspace
 - Controlled Airspace (A,B,C,D,E)
 - VFR Weather minimums
 - Airspeed limitations
 - Special Use Airspace
 - Prohibited/restricted areas
 - MTR, MOA, alert areas

Special Syllabus – *Student accomplishes a simulated VNAV Route Abort Procedure with an arrival and traffic pattern at an alternate/auxiliary airfield in the N303 or N304 sortie.*

N304

Note: *If the student has not consistently performed normal approach/landings to a FAIR (3) level prior to this sortie, the IP should perform this maneuver on this and all future sorties to allow the student to gain proficiency monitoring this maneuver.*

Note: *Prior to this sortie, the student will coordinate with the flight commander/USEM to determine the N490 checkride profile.*

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Pre-Flight Study Assignment

- **EPs:** Refer to DA-20-C1 EMERGENCY PROCEDURES TRAINING GUIDE
 - Lost Procedures (IFG)
 - Engine Malfunction in Flight (Oil Pressure Loss, Below Green Arc)
 - Throttle Linkage Failure (reference Precautionary Emergency Landing)
 - Flap Malfunction
- **IFG:** All (review)
- **Local Flying Procedures:** All (review)
- **GK Topics:** (see below)
- **Pilot's Handbook of Aeronautical Knowledge (recommended):**
 - Chapter 11, Weather Theory
 - Chapter 12, Aviation Weather Services, pg. 12-1 through 12-21
- **Airplane Flying Handbook (recommended):** All applicable sections (review)

Objectives – Student builds on basic aircraft control, situational awareness and previously introduced navigation basics: flight planning, chart interpretation, weather/wind analysis, dead reckoning, turn point briefings, VOR cross tuning, and course/speed/time control corrections. **IP conducts the Mission briefing and Debriefing. Student briefs Motherhood/CRM topics and the VNAV route briefing.**

Introduced Topics in the Prebrief

- Any topics not previously accomplished
- Area Simulated Forced Landing, if two not previously completed

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EP of the Day (Motherhood)

- Throttle Linkage Failure (reference Precautionary Emergency Landing)

TableTop EP (Pre/Post-Flight)

- Flap Malfunction

General Knowledge (GK)

- A107, Weather Reports
 - Atmospheric Circulation (H/L)
 - Air Masses/Fronts
 - Clouds and Thunderstorms
 - Atmospheric Stability/Inversion
 - Low Level Windshear/Turbulence
 - METAR/TAF

Special Syllabus – *Student accomplishes a simulated VNAV Route Abort Procedure with an arrival and traffic pattern at an alternate/auxiliary airfield in the N303 or N304 sortie.*

N305

Reminder: All EPs must be signed off prior to N490.

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Pre-Flight Study Assignment

- EPs: Refer to DA-20-C1 EMERGENCY PROCEDURES TRAINING GUIDE
 - Avionics Malfunction
- IFG: All (review)
- Local Flying Procedures: All (review)
- GK Topics: (see below)
- Pilot's Handbook of Aeronautical Knowledge (recommended): All (review)
- Airplane Flying Handbook (recommended): All applicable sections (review)
- Checkride Evaluation Guide

Review – Gradebook, 4293s checked/signed/initialed, and any questions from previous sorties.

Objectives – Student displays proficiency with basic aircraft control, situational awareness and navigation basics: flight planning, chart interpretation, weather/wind analysis, dead reckoning, turn point briefings, VOR cross tuning, and course/speed/time control corrections. **IP conducts the Mission briefing and Debriefing. Student briefs Motherhood/CRM topics and the VNAV route briefing.**

Introduced Topics in the Prebrief

- Any topics not previously accomplished

EP of the Day (Motherhood)

- The student will brief (by memory) one of the following EP checklists as chosen by the IP:
 - Emergency Ground Egress
 - Departing a Prepared Surface
 - Engine Malfunction in Flight (Sufficient Runway Remaining to Land)
 - Engine Malfunction in Flight (Insufficient Engine Power after Takeoff)
 - Forced Landing
 - Spin Recovery

TableTop EP (Pre/Post-Flight)

- As required...

General Knowledge (GK)

- As required...

Note: Emphases for EP and GK topics will be in accordance with the IFS Checkride Evaluation Guide.

N490

Use the IFS Checkride Evaluation Guide to prepare for this sortie

Note: The normal profile for this sortie is for the student to complete all ground operations, takeoff and departure. At the cruise/level-off and/or autotermination point, the student will transfer aircraft control to the Check Pilot. The Check Pilot will fly and the student will direct/monitor all remaining flight maneuvers (VNAV route, area work, and all pattern work/landings). If any modification to this normal profile is required, the student's primary IP will discuss the required adjustments with the Check Pilot prior to the checkride.

Note: The student should be prepared to brief 15 minutes prior to the normally scheduled brief time (dependent on Check Pilot availability), to allow additional time for the VNAV Route Briefing.

Pre-Flight Study Assignment

- EPs: Refer to DA-20-C1 EMERGENCY PROCEDURES TRAINING GUIDE
- IFG: All (review)
- Local Flying Procedures: All (review)
- GK Topics: All (review)
- Pilot's Handbook of Aeronautical Knowledge (recommended): All (review)
- Airplane Flying Handbook (recommended): All applicable sections (review)

Objectives – Student performs and/or monitors required items to the proficiency required by the MIF (including ~ 1 hour ground evaluation). **Check Pilot conducts the Mission briefing and Debriefing. Student briefs Motherhood/CRM topics and the VNAV route briefing.**

Introduced Topics in the Prebrief

- None

EP of the Day (Motherhood)

- The student will brief (by memory) one of the following EPs (chosen by the student):
 - Emergency Ground Egress
 - Departing a Prepared Surface
 - Engine Malfunction in Flight (Sufficient Runway Remaining to Land)
 - Engine Malfunction in Flight (Insufficient Engine Power after Takeoff)
 - Forced Landing
 - Spin Recovery

TableTop EP (Pre/Post-Flight)

- In accordance with the IFS Checkride Evaluation Guide

General Knowledge (GK)

- In accordance with the IFS Checkride Evaluation Guide