

MNEMONIC CHECKLISTS

(for use prior to written checklist, not as a substitute)

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Planning Checklists

Flight Readiness

PAVE

Pilot

[Healthy] IM SAFE
[Qualified] BEST

Aircraft

[Req. inspections] TAPE-V
[Req. equipment] TOMATO FLAMES
APES
TEACHAR
[Req. papers] ARROW

VEnVironment

[X-ctry planning] ORBIT
[Req. info] DF WRAP

External Factors

[Process risks] CARE
[Manage risks] TEAM
[Decision making] DECIDE

Pilot Amplified

IM SAFE

Illness
Medication
Stress
Alcohol
Fatigue
Emotion, eating, excrement

BEST

Bookwork
Experience
Syllabus/plan
Think

Aircraft Amplified

TAPE-V

Transponder - 24 months
Annual - 12 months
Pitot/static/altimeter - 24 months (IFR only)
ELT - 12 months
I
VOR - 30 days (IFR only)

Day VFR:

TOMATO FLAMES

- Tachometer
- Oil pressure gauge
- Manifold pressure gauge
- Airspeed indicator + altimeter
- Temperature gauge (liquid cooled)
- Oil temperature gauge

- Fuel gauges
- Landing gear position indicator
- Anticollision lights
- Magnetic direction indicator
- Emergency locator transmitter
- Seat belts + shoulder harness

ARROW

- Airworthiness certificate
- Registration certificate
- Radio license (if operating outside USA)
- Operating handbook (POH/AFM)
- Weight and balance/Equipment list

Night: TOMATO FLAMES + APES

APES

- Anticollision lights
- Position lights
- Energy source
- Spare fuses

IFR

Day: TOMATO FLAMES + TEACHAR
Night: TOMATO FLAMES + APES + TEACHAR

TEACHAR

- Turn coordinator
- Energy source of adequate capacity
- Attitude indicator
- Clock
- Heading indicator
- Altimeter adjusted for barometric pressure
- Radio/nav. equip. appropriate to ground facilities

Environment Amplified

ORBIT

- Overview [consult charts, A/FD, other general info.]
- Route [plot course, identify alternate, MSA, airspace, etc]
- Briefing [weather, briefing FSS, NOTAMS, TFR's, etc]
- Itinerary [nav. log w/ courses, ✓pts, altitudes, freq., etc]
- Tell [prepare and file flight plan]

DF WRAP

- Delays
- Fuel requirements
- Weather
- Runway lengths
- Alternates
- Performance

Necessary 9

- TFRs
- Synopses
- Adverse WX
- FOG
- Density Altitude
- Ceiling
- Visibility
- Surface Wind
- Winds Aloft

External Factors Amplified

CARE

- Consequences
- Alternatives
- Reality
- External pressures

TEAM

- Transfer
- Eliminate
- Accept
- Mitigate

DECIDE

- Detect a change
- Estimate need for action
- Choose desired outcome
- Identify actions to achieve desired outcome
- Do the actions
- Evaluate the results

Ground Checklists

#1

Preflight

FLAPHOT

- Flaps + Fuel Gauges
- Landing gear position indicator
- Appropriate lights
- Papers [ARROW]
- Hobbs
- Overview
- Toilet, Talk, Take-off brief

#3

Pre-Taxi

UFGETS

- Undercarriage [landing gear position indicator gear down]
- Flaps [up]
- Gas [fuel pump, fuel gauges, fuel selector]
- Engine [mixture, prop., throttle, carb heat, cowl flaps]
- Trim [set for takeoff]
- Seats, Seat-belts, Doors [on and locked]
 - LIGHTS [on as required]
 - CAMERA - transponder code + selector [set as required]
 - ACTION [traffic scan, radio call]

#4

Run-up

CIGAR

- Controls [flight + engine]
- Instruments [flight + engine]
- Gas [fuel pump, fuel gauges, fuel selector]
- Area [clear for run-up] + Attitude [trim set]
- Run-up [man. pressure, RPM, oil pressure on prop. gov. test; mags; carb. heat; suction; amps; idle; friction lock; etc.]

#2

After Start

- Clock [set]
- Radios - Com [set]
 - Nav. [tune, ID, set-up]
- Compass [Check]
- 6 Pack [Check and set]

#5

Pre-takeoff

UFGETS

Undercarriage [landing gear position indicator gear down]

Flaps [as required]

Gas [fuel pump, fuel gauges, fuel selector]

Engine [mixture, prop., throttle, carb heat, cowl flaps]

Trim [set for takeoff]

Seats, **S**eat-belts, **D**oors [on and locked]

LIGHTS [on as required]

CAMERA - transponder code + selector [set as required]

ACTION [traffic scan, radio call]

#6

Take-off

CLASH

Clock [note time]

Lights [on as required]

Action [traffic scan/radio calls]

Squak - transponder code + selector [set as required]

Heading [set heading indicator to mag. compass and verify with runway heading]

Airborne Checklists

Operations

UFGETS

Undercarriage [landing gear up]

Flaps [up]

Gas [fuel pump, fuel gauges, fuel selector]

Engine [mixture, prop., throttle, carb heat, cowl flaps]

Trim [as required]

Seats, **S**eat-belts, **D**oors [on and locked]

LIGHTS [on as required]

CAMERA - transponder code + selector [set as required]

ACTION [traffic scan, radio call]

Maneuvers

ACT

Area, **A**ltitude, **A**irspeed

Clearing turns

Technique

Engine Out

GOFAST

- G**lide [trim for best glide speed]
- O**bserve [chase and fly to landing area]
- F**uel [verify amount; tank selection; switch tanks; aux. fuel pump; mixture]
- A**ir [carb. heat, alternate air]
- S**park [mags both; switch to L or R]
- T**erminate [radio call "mayday" (on 121.5 or other freq.); transponder to 7700; shut down procedures]

Landing (In range)

UFGETS

- U**ndercarriage [landing gear indicator lights]
- F**laps [as appropriate]
- G**as [fuel pump, fuel gauges, fuel selector]
- E**ngine [mixture, prop., throttle, carb heat, cowl flaps]
- T**rim [as required]
- S**eats, **S**eat-belts, **D**oors [on and locked]
 - LIGHTS [on as required]
 - CAMERA - transponder code + selector [set as required]
 - ACTION [traffic scan, radio call]

TOP OF DESCENT (TOD)
WAIT Weather
Avionics
Instruments
Terminal Procedure

Landing (on downwind or gear down)

GUMPS-C

- G**as [pump on, selector on both]
- U**ndercarriage [gear down]
- M**ixture [full rich]
- P**ropeller [full forward]
- S**eat belt [on]
- C**arb heat [on]

Landing (on turn to final)

"Final clear; check mixture, prop., gear"

After landing (clean up)

UFGETS

- U**ndercarriage [gear down lights]
- F**laps [up]
- G**as [pump off]
- E**ngine [carb. heat off]
- T**rim [set for takeoff]
- S**eats, **S**eat-belts, **D**oors [remain on and closed]
 - LIGHTS [as required]
 - CAMERA - transponder [as required]
 - ACTION [traffic scan, radio call]