GA8 GIPPSLAND TRAINING PLAN

CAP Gippsland GA8 Training Plan

This training plan is designed to provide a standardized method of gaining proficiency in the Gippsland GA8 aircraft. This plan should be printed and put into a student training folder.

Many have stated the GA8 is an easy aircraft to fly, in fact many have unknowingly said the GA8 is as easy to fly as a Cessna 172. While the GA8 is indeed an easy aircraft to fly, it is unfair to compare it to any other aircraft.

The GA8 aircraft possesses straight forward handling qualities that could be described as easy. However, if the GA8 is flown using the same techniques required by Cessna aircraft, our pilots could find themselves in trouble. Example: The only accident to date involving a GA8 aircraft was in Belize, where a pilot tried to use a Cessna landing technique of keeping power on the aircraft into the flare. The additional power resulted in the aircraft running off the departure end of the runway.

Control response in the GA8 is extremely effective, allowing crosswind landings and other maneuvers to be performed with ease. However, the control effectiveness will not make up for poor flying techniques or lack of proficiency.

Minimum Check Out Requirements For CAP Pilots

All pilots who check out in the GA8 must meet the following requirements that were approved by the CAP National Board in March 2004:

The CAP pilot must be a qualified SAR/DR mission pilot.
The CAP pilot must have a minimum of 500 hours pilot-in-command time.
The CAP pilot must be a Commercial Pilot with a current Class II Flight Physical.
The CAP pilot must be Instrument rated.
The CAP pilot must complete the on-line GA8 course and pass the examination located at: https://ntc.cap.af.mil/ops/dot/school/GA8cfm/index.cfm.
The CAP pilot must pass a CAPF 5 check ride. CAP check pilots can only be certified by another check pilot who was trained by the National Test Pilot School.

Training Standardization

As in all other CAP activities…**SAFE MISSION ACCOMPLISHMENT IS OUR #1 GOAL!!**

Transfer of control of the aircraft must be explained to the student before every flight. **The procedure should be a challenge/response.** Example - Instructor's challenge: "I've got the controls." Student's response: "You've got the controls."

Perform clearing turns before practice maneuvers -- Clearing turns consist of at least 180 degrees of turn (one 180, or two 90 degree turns in opposite directions) at approximately 30 degrees of bank.

Students shall complete all proper checklists prior to takeoff and landing.

Recoveries from both imminent and fully stalled conditions should be taught for all stalls.

Completion Standards

The student is proficient when the student is able to perform the assigned maneuver at or above the FAA Commercial Pilot PTS level.

How to Use This Training Plan

The **"CAP Initial GA8 Check Out Program Review"** contains subjects that should be presented in a classroom setting. Completion of the GA8 Online Familiarization Course is required prior to training and may facilitate the review, but is not a substitute for completion of this portion of the training.

The **"CAP Initial GA8 Check Out Program"** is a method of ensuring items on Flight 1 and 2 are completed.

"Flight 1 and 2 Flight Syllabus" and **"Instructor In-Flight Guides"** are for student and instructor to conduct the flight training. In flight guides should used by instructors.

Operational Risk Management Decision Matrix

This ORM matrix is provided for you assistance in assessing the risks of your particular flight.

Flight Type	VFR 1	IFR 2				
Flight Conditions	DAY 1		NIGHT 3			
Pilot Rating	CFI 1	Comm 2	INST 3	PVT 4	STUDENT 5	
Rest / Sleep in 24 hr period	>8 HRS 1	6-7 HRS 2		3-5 HRS 4	<3 HRS 5	
Visibility	10-15 Miles 1	6-9 Miles 2		3-5 Miles 4	<3 Miles 5	
Ceiling in feet	>10,000 1	5,000-9,000 2	3,000-4,000 3	1,000-2,000 4	<1,000 5	
Crosswind Component		0-10 KTS 2	11-15 KTS 3	16-19 KTS 4	≥20 KTS 5	
Destination Weather	VFR 1		Marginal VFR 3		IFR 5	
Airport Familiarity	YES 1		NO 2			
Hours in type aircraft	>200 HRS 1	151-199 HRS 2	100-150 HRS 3	50-99 HRS 4	<50 HRS 5	
Flight Time in Previous 12 Hrs	<3 HRS 1		4-5 HRS 3	5-6 HRS 4	>7 HRS 5	

Total ____

VFR pilot on VFR flight

≤26 GO
27-33 Consider alternate actions
34-38 Consult experienced CFI
≥39 NO GO

IFR current pilot on IFR flight

≤31 GO
32-35 Consider alternate action
36-40 Consult experienced CFI
≥41 NO GO

CAP Initial GA8 Check Out Program Review

During the check out the CAP GA8 instructor should compete this as a means of ensuring the student is thoroughly trained.

Training Items	Date Introduced	Date Complete
Ground Briefing		
On-line GA8 Familiarization Course completed with Certificate of Completion and passed on-line examintion.		
Aircraft Construction		
Cockpit Layout		
Power Plant		
Flight Controls		
Landing Gear		
Instrument Panel		
Engine Controls		
Fuel System		
Electrical System		
Seat/Net/Cargo Retaining System		
Flight Briefing		
Aircraft Documents		
Aircraft Physical Dimensions		
Airspeed Limitations and Indicator Markings		
Power Plant Limitations and Operation		
Engine Instrument Markings		
Weight and Balance Limitations		
Maximum Passenger Seating Limits		
Flight Load Factor Limits		
Maneuvering Limits		
Flight Crew Limits		
Operational Limits		
Fuel and Lubricating Oil Limitations		
Speeds For Normal Operations		
Landing and Roll-out Procedures		
After Landing Procedures		
Emergency Procedures Oral Review		
Airspeeds for Emergency Operations		
Emergency Procedures Checklist		
Engine Failures		
Forced Landings		
Fires		
Smoke/Fume Evacuation		
Landing With a Flat Main Tire		
Inadvertent Icing Encounter		
Electrical Power System Malfunctions		
Ditching		
Rough Engine/Loss of Power		
Fuel System Malfunctions		
Spins		

The check out program is designed to be completed in two flights. Additional flights should be added as needed to ensure the trainee meets the Commercial Pilot PTS standard.

CAP Initial GA8 Check Out Program

Completion of the following syllabus items should ensure proficiency.
After initial aircraft checkout, each individual pilot is personally responsible for ensuring he or she is proficient and should accomplish the following training items in such a manner and frequency as to ensure proficiency.

Proficiency Flight Training Items	Date Proficient
Ground Training Review	
Certificates & Documents	
Pre-flight Inspection	
Determine Weight and Balance	
Determine Take Off , Cruise, and Landing Performance	
Tie-down Procedures	
Other Operational Issues	
Flight Training	
Use of Checklists	
Startup and Taxi	
Normal and Crosswind Takeoff	
Short and Soft Field Takeoff	
Normal and Max. Performance Climb	
Straight and Turning Flight	
Medium and Steep Turns	
Slow Flight	
Full Power Off Stalls – straight and turning	
Full Power On Stalls – straight and turning	
Night Operations Discussion – Use of Lights	
Normal and Crosswind Landing	
Forward Slips to Landing	
Short and Soft Field Approach and landing	
Baulked Landing	
Avionics Operation	
After Landing Procedures	
Emergency Procedures	
Emergency Approach and Landing (Simulated)	
System and Equipment Failure	
POH Emergency Procedure Knowledge	
Emergency Descent	

Flight 1 Syllabus

OPERATION	Check Proficient	COMMENTS
1. Preflight Inspection • Flight preparation/planning • Use of checklist • Aircraft systems check		
2. Ground Handling (Surface Operations) • Start-up and taxi • Pushing by hand • Obstacle clearance • Parking • Aircraft securing		
3. Take Off • Normal and crosswind takeoff		
4. Normal and Max. Performance Climb		
5. Straight and Turning Flight		
6. Medium and Steep Turns		
7. Slow Flight		
8. Stalls • Power On - Full and Imminent – Turning and Straight. • Power Off - Full and Imminent – Turning and Straight.		
9. Normal and Crosswind Pattern & Landing		
10. Forward Slips to Landing		
11. After Landing Procedures		
12. Post-Flight Discussion		
13. Emergency Procedures Oral Review		
14. Preview Next Lesson • Practice maneuvers as needed. • Introduce and perform Short and Soft Field Takeoffs. • Discuss Night Operations and Lighting. • Introduce and perform Baulked Landing. • Introduce and perform Avionics Operations. • Introduce and perform Emergency Approach and Landing (Simulated). • Review POH Emergency Procedure Knowledge. • Emergency Descent.	Student Reading Assignment: **GNS 480 User Guide.** Getting Started. Basic Operations. Nav/HSI Display (NAV) Panning Direct-To Nearest (NRST) search Information on Waypoints (INFO) Com Radio (COM) Nav Radio (VOR) Transponder Control (XPR) Flight Planning (FPL) Procedures Timer (TMR) Checklist User Waypoints (USER) System Mode (SYS) Parallel Track (PTK) Simulator Mode Messages (MSG)	**GA8 Flight Manual:** Section 2 – Limitations. Section 3 – Emergency Procedures. Section 4 – Normal Procedures. Section 5 – Performance. Section 6 – Weight and Balance. Section 7 – Aircraft and Systems Description. Section 8 – Aircraft Handling, Servicing, and Maintenance.

IN-FLIGHT INSTRUCTOR'S GUIDE
Flight 1
Print and take in cockpit during the flight.

OPERATION	COMMENTS
1. Preflight Inspection • Flight Preparation/planning • Use of checklist • Aircraft systems check	
2. Ground Handling (Surface Operations) • Start-up and Taxi • Pushing by hand • Obstacle clearance • Parking • Aircraft Securing	
3. Take Off • Normal and Crosswind Takeoff	
4. Normal and Max. Performance Climb	
5. Straight and Turning Flight	
6. Medium and Steep Turns	
7. Slow Flight	
8. Stalls • Power On -Full and Imminent – Turning and Straight. • Power Off - Full and Imminent – Turning and Straight.	
9. Normal and Crosswind Pattern & Landing	
10. Forward Slips to Landing	
11. After Landing Procedures	
12. Post-Flight Discussion	
13. Emergency Procedures Oral Review	
14. Preview Next Lesson • Practice maneuvers as needed. • Introduce and perform Short and Soft Field Takeoffs. • Discuss Night Operations and Lighting. • Introduce and perform Baulked Landing. • Introduce and perform Avionics Operations. • Introduce and perform Emergency Approach and Landing (Simulated). • Review POH Emergency Procedure Knowledge. Emergency Descent.	**Give Student Reading Assignment.**

Student Reading Assignments

Print and give to the student.

Reading Assignment after Flight 1

GNS 480 Pilots Guide. Getting Started. Basic Operations. Nav/HSI Display (NAV) Panning Direct-To Nearest (NRST) search Information on Waypoints (INFO) Com Radio (COM) Nav Radio (VOR) Transponder Control (XPR) Flight Planning (FPL) Procedures Timer (TMR) Checklist User Waypoints (USER) System Mode (SYS) Parallel Track (PTK) Simulator Mode Messages (MSG)	**GA8 Flight Manual:** Section 2 – Limitations. Section 3 – Emergency Procedures. Section 4 – Normal Procedures. Section 5 – Performance. Section 6 – Weight and Balance. Section 7 – Aircraft and Systems Description. Section 8 – Aircraft Handling, Servicing, and Maintenance.

Reading Assignment after Flight 2

Student Reading Assignment: GA8 Flight Manual: Complete the CAP aircraft questionnaire in preparation for the flight evaluation. Review Chapter 3 – Emergency Procedures in preparation for the flight evaluation oral.

Flight 2 Syllabus

OPERATION	Check Proficient	COMMENTS
1. Preflight Inspection • Complete a Weight and Balance form • Determine Takeoff and Landing Performance Data		
2. Start Up and Taxi • Cold and Hot Start Procedures • Taxi turns (360º turns)		
3. Take Off • Short Field • Soft Field Takeoff		
4. Collision Avoidance Climbs		
5. Straight and Turning Flight		
6. Medium and Steep Turns		
7. Slow Flight		
8. Stalls • Power On -Full and Imminent – Turning and Straight. • Power Off - Full and Imminent – Turning and Straight.		
9. Instrument Approaches • GPS • ILS • VOR		
10. Forward Slips to Landing		
11. Landings • Baulked • Short Field • Soft Field		
12. After Landing Procedures		
13. Emergency Procedures Oral Review		
14. Preview Next Lesson CAPF 5 Initial Aircraft Flight Evaluation.		**Student Reading Assignment:** GA8 Flight Manual: Complete the CAP aircraft questionnaire in preparation for the flight evaluation. Review Chapter 3 – Emergency Procedures in preparation for the flight evaluation oral.

IN-FLIGHT INSTRUCTOR'S GUIDE
Flight 2
Print and take in cockpit during the flight.

OPERATION	COMMENTS
1. Preflight Inspection • Complete a Weight and Balance form • Determine Takeoff and Landing Performance Data	
2. Start Up and Taxi • Cold and Hot Start Procedures • Taxi turns (360º turns)	
3. Take Off • Short Field • Soft Field Takeoff	
4. Collision Avoidance Climbs	
5. Straight and Turning Flight	
6. Medium and Steep Turns	
7. Slow Flight	
8. Stalls • Power On -Full and Imminent – Turning and Straight. • Power Off - Full and Imminent – Turning and Straight.	
9. Instrument Approaches • GPS • ILS • VOR	
10. Forward Slips to Landing	
11. Landings • Baulked • Short Field • Soft Field	
12. After Landing Procedures	
13. Emergency Procedures Oral Review	
14. Preview Next Lesson CAPF 5 Initial Aircraft Flight Evaluation.	**Give Student Reading Assignment.**