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# PILOT TRAINING PROGRAM

RECORD OF PROGRESS

NAME

ALL DEFINITIONS AND DESCRIPTIONS ARE AT [TRAINING.GLIDING.CO.NZ](https://training.gliding.co.nz)

**1. SOLO PILOT**

Name

Self-Prepared Reviewed Date Completed Date

**Self-Preparation**

Logbook and Training Record  
Airfield and Safety Rules  
Glider Familiarisation  
Ground Handling + Retrieving  
Launch Point Procedures  
Human Factors 1: I'M SAFE  
Join a Club Roster


**Aircraft Handling**

Taking Control / Handing Back Control  
Effects of Controls (All)  
Cockpit Check Lists  
Lookout, Habit of Active Scanning  
Straight Flight, Use of Trimmer  
Coordinated 90° Turn, 30° Bank


**Circuit and Landing**

Circuit - Standard Pattern  
Circuit - Steady Speed (Target  $\pm 5$  kts)  
Approach Control, Aiming Point  
Roundout and Smooth Touchdown  
Circuit Too Close In / Cramped  
Circuit Too Far Out  
Circuit Started Too High  
Running Out of Height in Circuit  
No-Instrument Flight and Landing  
Balked Approach  
Balloon / Bounce Recovery


**Minimum Speed, Unusual Attitude**

Basic Stall Recognition, Wings Level  
Effect of Turning + Brakes on Stall Speed  
Safe Speed Near the Ground  
Wing Drop Stall and Recovery  
Demonstration of a 1-Turn Spin  
Spiral Dive vs Spin


**Launch (one method required for solo)**

Competent at Aerotow Launch  
Launch Signals - Aerotow  
Launch Failure Exercises - Aerotow  
Competent at Winch Launch  
Launch Signals - Winch  
Launch Failure Exercises - Winch


**Almost There**

Demo Crosswind Launch/Land  
Medical Declaration  
10 Oral Questions Answered


**First Solo Flight**


**WINCH DRIVER**

Name

Self-Prepared Reviewed Date Completed Date

**Preparation**

Three Glider Flights by Winch  
Basic Theory of Winch Launching  
Read Winch Operating Manual  
Safety Precautions with Cables  
Daily Inspection, Review Log Book  
Towing Winch Behind Vehicle


**Setup**

Winch Setup on Field  
Parachute and Strop Inspection  
Cable Car Checks  
Cable Car Driver Briefing


**Authority and Responsibilities**

Clear Area Around Winch  
Liaison with Launch Point  
No Passengers or Observers in Cab


**Winch Driving**

Winch Controls, Hand Locations  
Throttle Guide, Use of Throttle  
Radio Phraseology  
Signal Lights + Glider Signals  
Engine Temperature Management  
Normal Launch Procedure  
Cable Stopped Before Landing  
Review of Emergency Stop  
Rehearse Use of Guillotine  
Solo in Cab


**Handling Non-Normal Situations**

Launching in Tail Wind  
Launching in Cross Wind  
Cable Retrieve After Failed Launch  
Cable Loops, Check after Braking  
Winch Power Failure: Simulated or Real  
Cable Hang-up Procedure


**Other Procedures**

Cables Not Towed Out Straight  
Cable Retrieve from Mid Field  
Closing Down at End of Day  
Reporting Winch Defects  
Winch Refuelling


**Maintenance and Repair**

Cable Splice - Loop and In-Line  
Change Broken Weak Link  
Change Strops and Traces


**3. CROSS COUNTRY PILOT**

Name

**Self-Preparation**

Map Reading and Local Airspace  
Hydration and In-Flight Relief  
Parachute Use & Maintenance  
Field Selection from Air (7S's)  
Maintenance Manual and Rules

Self-Prepared	Reviewed	Date	Completed	Date

**Aircraft Handling**

Rig & De-Rig, Prep for Road Retrieve  
Rapid Descent  
Benign Spiral Mode  
Safe Circling Against a Ridge


**Circuit and Landing**

Landing on Sloping Ground  
Downwind Landing / Ground Loop  
Reduce Speed on Stabilised Approach


**Soaring Techniques**

Accurate Centering Technique  
Safe Gaggle Flying Etiquette  
Factors Affecting Gliding Distance


**Preparation for 50 km Flight**

Soar/Land Decision-making, 3-2-1 Rule  
Plan Route for 50 km Flight  
Identify Landable Areas On Route  
Operate GPS Navigation Device  
Transponder Operation  
Flight in Controlled Airspace


**Study Course and Examinations**

Human Factors and Flight Safety (HF)  
Aviation Law and Rules (Law)  
Meteorology for Glider Pilots (Met)  
Air Navigation and Airmanship (Nav)  
Radio Phraseology and Procedures (Rad)  
Glider Technical Knowledge (Tech)

Study Guide	Date	Exam Pass	Date

**Anticipation**

Dual Flight in GNZ Competition  
Dual Flight in Mountain Wave

Completed	Date

**Almost There**

Field Selection + Outlanding - Dual  
Supervised Field Outlanding - Solo  
25 hours as Pilot in Command  
Flight Test for Passenger Rating  
Cleared to Fly Cross Country

Self-Prepared	Reviewed	Date	Completed	Date

**Solo Flight - 50 km between 2 points**

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**4. TASK PILOT**

Name

**Self Preparation**

Hydration, Nutrition, Fatigue  
Turnpoint Database, VNC Maps  
FAI Badge Requirements, Task Rules  
GNZ Contest Rules & Scoring System  
Documents to be Carried in Aircraft  
Retrieve Vehicle, Trailer, Crew  
Visual Illusions and Deceptions

Self-Prepared	Date	Completed	Date

**Aircraft Handling**

Glider Preparation for Task Flying  
Efficient Flying Techniques  
Use of Water and Trim Ballast  
Dual Aerotow


**Circuit and Safe Landing**

Landing with Many Gliders in Circuit  
Cockpit Checks at Task End  
Accurate Final Glide to Finish  
Aerotow Retrieve after Out-Landing


**Soaring Techniques**

Using Convergences and Fronts  
Optimal Cross-Country Speed  
Dolphin Flight Along Energy Lines


**Tasks and Navigation**

Principles of Task Setting  
Configure Nav Computer, Enter Task  
Navigate to a Point using GPS  
Start and Finish Options  
Download and Review Flight Log  
Upload Flight to On-Line Contest


**Risk Management and Safety**

Collision Avoidance Systems  
Flight Following Procedures  
Flying Open Class Gliders  
Incident and Accident Reporting Rules  
Just Culture & Attitude to Reporting


**Anticipation**

Rehearse Action in Event of Mid-Air  
Rehearse Landing in an Emergency  
Plan Actions After an Outlanding  
Survival in Bush and Mountains  
Rehearse Parachute Descent


**Almost There**

Complete a Task at a GNZ Contest  
**Gold Distance Flight 300 km**


**5. ALPINE PILOT**

Name

	Self-Prepared	Date	Completed	Date
<b>Self Preparation</b>				
Attend Course in Mountain Flying				
Attend Hypobaric Chamber Course				
High Altitude Physiological Effects				
Oxygen Systems and Handling				
Cockpit Security In Turbulence				
Impact of Temperature on Glider				
Wave and Convergence Theory				
Altitude AMSL vs Flight Level				
<b>Aircraft Handling</b>				
Launching in Wave Conditions				
Don't Hit The Mountain - Review				
Turbulence / Unusual Attitude Recovery				
IAS / TAS / Overspeed / Flutter				
<b>Circuit and Safe Landing</b>				
Assessing Valley Winds for Landing				
Avoiding Turbulent Landing Areas				
Securing Glider on Ground in Wind				
<b>Soaring Techniques</b>				
Flight Close to Ridge in Anabatic Lift				
Locating Thermals in the Mountains				
Finding and Using Mountain Wave				
Jumping Wave Lines - Fwd/Back				
Safe Techniques for Crossing Saddles				
Using Convergences in Mountains				
Climbing in Rotor Under a Wave				
<b>Navigation and Instruments</b>				
Identifying Alpine Landing Areas				
Airspace Use in Strong Climb/Descent				
Battery Performance at Low Temp				
Preventing Instrument Problems				
MBZ Areas, Common Landmarks				
Flight Following and Being Traced				
<b>Things to Think About</b>				
Inadvertent Entry into IMC				
Collision Risk on Energy Lines				
Battery Fail in Controlled Airspace				
Airbrakes Jammed Open or Closed				
Transponder Emergency Codes				
Hypoxia, Hyperventilation Checks				
Water Ballast Under Icing Conditions				
Survival Equipment and Plans				
Other Traps in Alpine Flying				
<b>Solo Alpine Flight to Aoraki / Mt Cook</b>				

**2. SOARING PILOT**

Name

	Self-Prepared	Reviewed	Date	Completed	Date
<b>Self-Preparation</b>					
Responsibilities of Pilot in Command					
Human Factors 2: Attitude to Risk					
Daily Inspection Approval					
Glider Flight Manual					
GNZ Manual of Approved Procedures					
Radio Phraseology and Use					
Operator Maintenance Permitted					
Local Landmarks within 10km					
<b>Aircraft Handling</b>					
Lookout - Consistent and Effective Scan					
360° Turns at 45° Bank					
Review of Slip, Skid, Yaw					
Use of Camber-Changing Flaps					
Flight at Higher Speeds, Polar Curve					
<b>Circuit and Landing</b>					
Circuit - Steady Speed (±3 kts)					
Side-Slip on Approach, Slipping Turn					
Cross-Wind Landing					
Strong Wind Landing					
Factors Affecting Landing Distance					
<b>Minimum Speed, Unusual Attitude</b>					
Wing Drop Stall Consolidation					
Full Spin Consolidation					
Review Spin vs Spiral Dive					
Lazy Eight Manoeuvre					
<b>Launch Review &amp; Consolidation</b>					
Aerotow - Consolidation					
Aerotow - Signals and Emergencies					
Winch - Consolidation					
Winch - Signals and Emergencies					
<b>Soaring Techniques</b>					
Conditions for Soarable Weather					
Thermal Techniques					
Ridge Techniques					
Wave Techniques					
Cloud Hazard					
<b>Anticipation</b>					
Dual Cross-Country Flight					
Simulated Out-Landing					
10 Oral Questions Answered					
Convert to Single Seat Glider					
Cleared Off Check Flights					
<b>Solo Soaring Flight 90 Minutes</b>					