

# Agenda

<i>Topic</i>	<i>Start Time</i>	
<p><b>Introduction</b></p> <ul style="list-style-type: none"> <li>● This flight can be used to fulfill portions of complex check out / flight review</li> <li>● Go over the agenda</li> <li>● Ask everyone to introduce themselves and say something about their past flying experience</li> <li>● Go over any up coming events/clinics</li> <li>● Baker-Lamb Study</li> </ul>	6:00	RA
<p><b>Density Altitude</b></p> <ul style="list-style-type: none"> <li>● Definition</li> <li>● Factors Effecting</li> <li>● How to calculate</li> </ul> <p><b>True Airspeed</b></p> <ul style="list-style-type: none"> <li>● Factors Effecting</li> <li>● Landing Faster</li> <li>● Longer Runway Required</li> <li>● How to calculate</li> </ul>	6:10	AG
<p><b>Weather</b></p> <ul style="list-style-type: none"> <li>● Summer/winter differences             <ul style="list-style-type: none"> <li>○ Thunderstorms</li> <li>○ Be out of the mountains by 1:00pm</li> <li>○ Icing during winter times                 <ul style="list-style-type: none"> <li>■ SLD</li> <li>■ Caused by upslope cooling</li> <li>■ Caused by mountain wave</li> </ul> </li> </ul> </li> <li>● Virga             <ul style="list-style-type: none"> <li>○ Expect Microbursts</li> </ul> </li> <li>● Gust Wave             <ul style="list-style-type: none"> <li>○ Trying to land after a thunderstorm</li> </ul> </li> <li>● Conditions on two sides of the pass</li> <li>● Moisture entrapment in valleys</li> <li>● Upslope Clouds</li> <li>● Banner</li> <li>● Lenticular Clouds</li> <li>● Winds aloft</li> </ul>	6:30	RA

<i>Topic</i>	<i>Start Time</i>	
<ul style="list-style-type: none"> <li>○ Venturi Effect <ul style="list-style-type: none"> <li>■ Vertical Venturi</li> </ul> </li> <li>○ Down/Up Drafts Visualization <ul style="list-style-type: none"> <li>■ 1MPH = 88 FPM, 2MPH= 176FPM</li> <li>■ In a valley, there may be rotor turbulence as well as downdrafts on the upwind side.</li> <li>■ Good lift (&gt;1000FPM) on the lee side means rough air on the upwind side.</li> </ul> </li> <li>○ Pass conditions</li> <li>○ 20/20 rule</li> <li>● Mountain AWOS <ul style="list-style-type: none"> <li>○ Frequencies</li> <li>○ Phone numbers</li> <li>○ Resort cameras</li> </ul> </li> <li>● Importance of PIREPS</li> <li>● Flying into the setting/rising sun</li> </ul>		
<b>Break</b>	7:30	

<i>Topic</i>	<i>Start Time</i>	
<p><b>Mountain Flying Techniques</b></p> <ul style="list-style-type: none"> <li>● Flight Planing <ul style="list-style-type: none"> <li>○ Always file a flight plan</li> </ul> </li> <li>● Preflight <ul style="list-style-type: none"> <li>○ Frost and wing ice</li> </ul> </li> <li>● Leaning <ul style="list-style-type: none"> <li>○ Before take off</li> <li>○ Use EGT during flight and climb out</li> </ul> </li> <li>● Take off <ul style="list-style-type: none"> <li>○ Must have 70% of Takeoff airspeed half way down the runway</li> <li>○ Runway Gradient <ul style="list-style-type: none"> <li>■ Take off distance -5%/degree for down slope, +10%/degree for upslope</li> <li>■ Think about down slope air during uphill take offs</li> </ul> </li> <li>○ Frozen Landing Gear</li> <li>○ Effects of Altitude on Vy and Vx</li> <li>○ Sun Effect</li> </ul> </li> <li>● Climb <ul style="list-style-type: none"> <li>○ Reduce Climb Rate by 20FPM for every 10°F above standard</li> <li>○ Engine Cooling for turbocharged engines <ul style="list-style-type: none"> <li>■ Thinner air but same power output</li> </ul> </li> </ul> </li> <li>● Cruise</li> </ul>	7:40	AG
<ul style="list-style-type: none"> <li>○ Oxygen requirement <ul style="list-style-type: none"> <li>■ How to use a continuous flow oxygen</li> <li>■ Hydration</li> </ul> </li> <li>○ Monitoring weather conditions</li> <li>○ Making PIREPS</li> <li>○ Making position reports</li> <li>○ Judging hight when approaching a ridge</li> <li>○ Ridge approach <ul style="list-style-type: none"> <li>■ 45° approach</li> <li>■ Always remain in a safe position</li> <li>■ Fly as if you were actually turning around at the point you would have if you had to turn back. This will set you up for a 45° approach.</li> <li>■ Have a plan</li> <li>■ Anticipating Up/Down drafts</li> </ul> </li> <li>○ Anabatic Lift</li> <li>○ Canyon flying</li> </ul>	8:00	RA

<i>Topic</i>	<i>Start Time</i>	
<ul style="list-style-type: none"> <li>■ Remain on the upwind side</li> <li>■ Box Canyon turns</li> <li>■ Traffic Avoidance</li> <li>○ Horizon is at the base not the top of the mountain</li> <li>○ Night and IFR flying in the mountains</li> <li>○ Power lines across canyons</li> <li>● Landing <ul style="list-style-type: none"> <li>○ Landing Fast</li> <li>○ Upslope/downslope runways <ul style="list-style-type: none"> <li>■ Hard landings/shallow approach on up slope</li> <li>■ Never touching down on down slope runways (Note: normal approach gradient is 3.0°)</li> </ul> </li> <li>○ Short field landing <ul style="list-style-type: none"> <li>■ Due to lack of engine performance, shallow, high power approaches are dangerous</li> <li>■ Easy to fall on the backside of the power curve where recovery will require raising the flaps and/or lowering the nose.</li> </ul> </li> <li>○ Winds/ cross wind landings</li> </ul> </li> </ul>		
<p><b>DUATS Filing Tips</b></p> <ul style="list-style-type: none"> <li>● How to file mountain passes passes</li> </ul>	8:20	AG
<p><b>Miscellaneous</b></p> <ul style="list-style-type: none"> <li>● Emergency Procedures <ul style="list-style-type: none"> <li>○ Engine failure after take off <ul style="list-style-type: none"> <li>■ Don't turn around if less than 800ft AGL</li> <li>■ Think of terrain around you</li> </ul> </li> </ul> </li> <li>● Survival Techniques <ul style="list-style-type: none"> <li>○ Don't panic</li> <li>○ Stay with the airplane</li> <li>○ Radio for help on 121.5</li> </ul> </li> <li>● AOPA's Mountain Flying Course <ul style="list-style-type: none"> <li>○ <a href="http://flash.aopa.org/asf/mountainFlying">http://flash.aopa.org/asf/mountainFlying</a></li> </ul> </li> </ul>	8:30	RA