



VICTORIA FLYING CLUB

## Contact Information

- Stephan Heinemann
- SMS: +1 (250) 891-5446
- Email: [stephan.heinemann@hotmail.com](mailto:stephan.heinemann@hotmail.com)
- Bookings, Questions



# Part I – Basic Climbing and Descending

- Review Attitudes and Movements
- **Basic Climbs and Leveling Off**
  - Attitude, Power, Trim (APT)
- **Basic Power-off Descents and Leveling Off**
  - Power, Attitude, Trim (PAT)
- **Instruments**
- Summary and Questions
- Pre-Flight Briefing



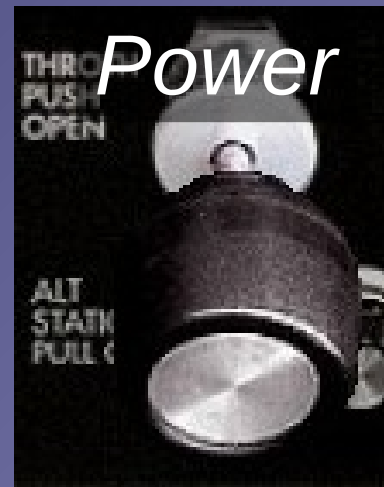
# Review

- How do we establish a nose-up/down **attitude**?
- What external **references** change how?
- Which **instruments** change how?
- How do we maintain **heading** in **straight** flight?
- How do we maintain **altitude** in **level** flight?



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# Establishing a Basic Climb



- In cruise-attitude **lookout** ahead and above
- Establish **nose-up attitude**
- Apply **full power** maintaining nose-up attitude
- Keep straight and control **yaw** with **rudder**
- **Trim** and continue to monitor **airspeed** and **altitude**



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# Maintaining a Basic Climb



- Adjust **attitude** to attain desired **climb** airspeed
- Re-**trim** after complete attitude adjustment





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# Leveling Off from a Basic Climb

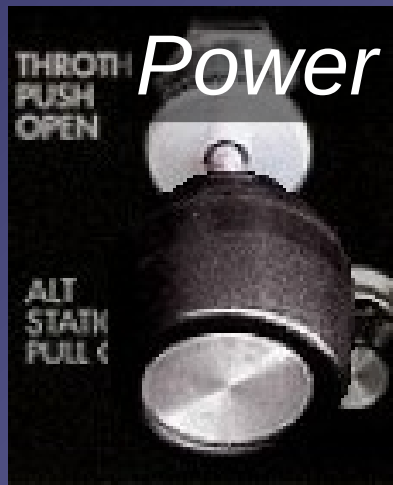


- Establish **cruise attitude** at desired target altitude
- Accelerate to **cruise airspeed**
- Reduce **power** maintaining **cruise attitude**
- Keep straight and control **yaw** with **rudder**
- **Trim** and continue to monitor **airspeed** and **altitude**



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# Establishing a Basic Descent

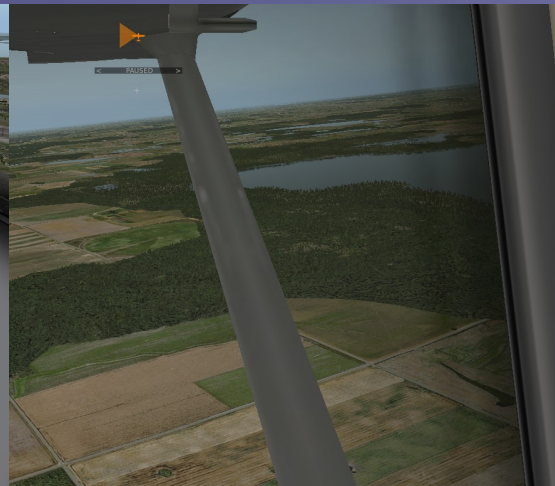


- In cruise attitude **lookout** ahead and below
- Reduce **power** to idle
- Keep straight and control **yaw** with **rudder**
- Decelerate to **descent airspeed** maintaining attitude
- Establish **nose-down attitude** and **trim**



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# Maintaining a Basic Descent



- Adjust **attitude** to attain desired **descent** **airspeed**
- Re-**trim** after complete attitude adjustment





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# Estimating the Glide Path

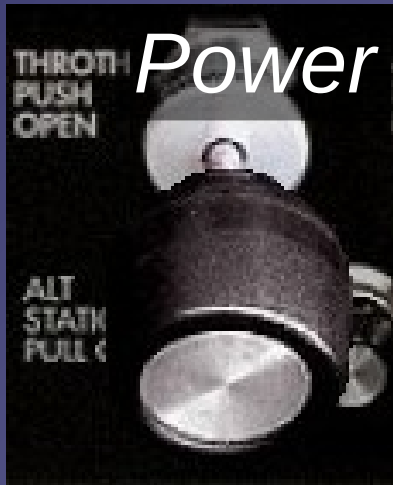


- References that **move up** cannot be overflown
- References that **move down** can be overflown
- References that **remain steady** are on glide path



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# Leveling Off from a Basic Descent



- In nose-down attitude **lookout** ahead and above
- Increase **power** to **cruise power** setting
- Establish **cruise attitude** and accelerate to **cruise airspeed**
- Keep straight and control **yaw** with **rudder**
- **Trim** and continue to monitor **airspeed** and **altitude**



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# Instruments



*Airspeed Indicator*



*Vertical Speed Indicator*



*Altimeter*

- **Airspeed** is the main reference instrument
- Monitor **airspeed**, **vertical speed** and **altitude**



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## Summary / Quiz

- Mentally perform a *basic climb* and **level off** and state all required actions. (**APT**)
- Mentally perform a *basic power-off descent* and **level off** and state all required actions. (**PAT**)
- How can we confirm the correct glide-path during a descent visually?





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# Pre-Flight Briefing

- Exercise
- Training Area
- Departure and Arrival Procedures
- Weather Briefing / NOTAMs
- Aircraft and Documents
- Time and Fuel Requirements
- Safety Considerations and Responsibilities