



# QUAD-COPTER INSTRUCTIONAL PROGRAM CA-20052

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# SAFETY BRIEF

- Safety is KEY in all operations
  - Throughout this program safety will be stressed
  - Failure to follow the safety protocol will result in an instant failure of the course!!!
  - Always perform a preflight safety check of the quad-copter
  - If any issues arise immediately notify the instructor and land the quad-copter
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# SAFETY BRIEF

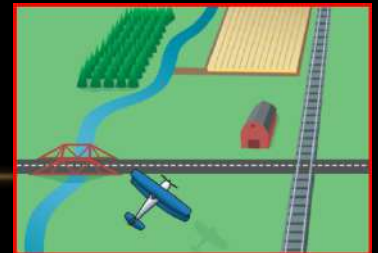
- Never attempt to fly the quad-copter in adverse weather conditions i.e.: high winds, rain etc.
  - Do not fly within immediate range of people
  - Maintain at least 3yds away from the quad-copter when in operation
  - Do not attempt maneuvers above your skill level unless approved by your instructor
  - Never operate a quad-copter without your instructor present
  - Always follow the guidance of your instructor
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# FAA REGULATIONS

- Fly below 400 feet and remain clear of surrounding obstacles
- Keep the aircraft within visual line of sight at all times
- Remain well clear of and do not interfere with manned aircraft operations
- Don't fly within 5 miles of an airport unless you contact the airport and control tower before flying
- Don't fly near people or stadiums
- Don't be careless or reckless with your unmanned aircraft – you could be fined for endangering people or other aircraft

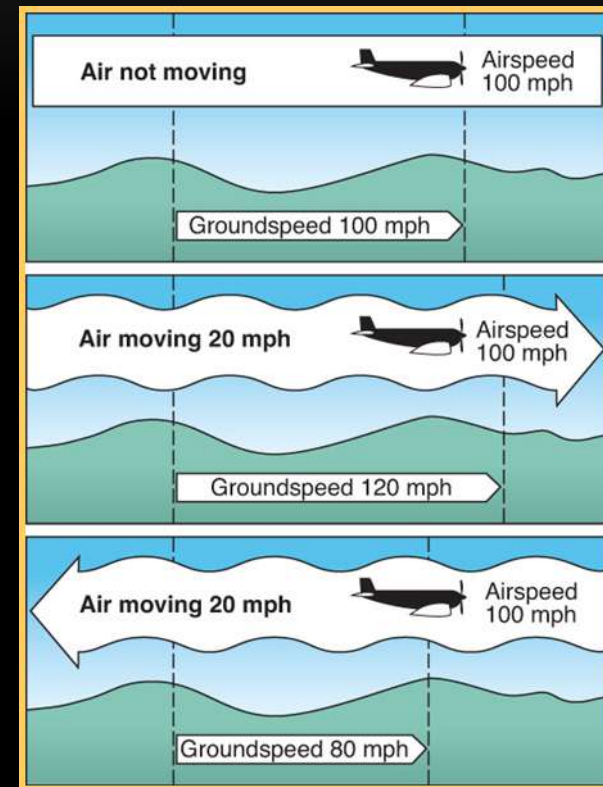
# DEAD RECKONING

- Dead reckoning is navigation based on computations using time, airspeed, distance, and direction
- By itself works best over short distances
- When flying over land, a pilot can combine dead reckoning with pilotage
- Calculation of one's position on the basis of distance run on various headings since the last precisely observed position, with as accurate allowance as possible being made for wind, currents, compass errors, etc.



# DEAD RECKONING

- Wind is one of the variables when a pilot is using dead reckoning
- At the end of an hour-long flight, the plane position is the result of two motions:
- The movement of the air mass over the ground
- The aircraft's forward movement through the air mass



# HOMework

- One paragraph summary on Dead Reckoning and how it pertains to quad-copter operations
  - Not completing will result in failure