

Miccar Aerial

Aerial Application Course



Course Syllabus

**Revised
January 2016**



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COURSE OUTLINE

It is imperative that from the very first contact with Miccar's Aerial Application Course, the vital importance of safety as the number one priority is stressed again and again. Throughout the course the primary focus will be upon developing safe and effective aerial application techniques spanning a wide range of subjects, including standardized ground and flight procedures, pesticide handling, risk management, initial and ongoing training programs, and logistical and administrative support elements.

Central to the program is training course members on all aspects of aerial application aircraft. This course takes a graduated approach that moves from basic aircraft handling to a final phase where members are responsible for taking a number of application jobs from receipt of work order to finished job. To accomplish this, the course will be divided into three phases as outlined below.

Phase I – Aircraft Handling

For many course members this program may be the first time they have flown aircraft with tailwheels. This phase begins with a comprehensive look at the dynamics of tailwheel equipped aircraft - why they handle the way they do, particularly during takeoff and landing phases. As well, anticipating that graduates will go on to flying a variety of aerial application aircraft, this phase covers a general approach to converting to various aircraft types, and an introduction to basic aerial application operational procedures including the procedure turn, low level flight, and various application patterns. The emphasis is upon precise aircraft handling at low speed / high gross weight conditions, and identification and awareness of pre-stall indications. By the end of this phase the pilot will have demonstrated safe handling and operation of the Citabria and the Pawnee aircraft.

Phase II – Basic Aerial Application Techniques

This phase moves from basic aircraft handling to the operation of aircraft in actual aerial application scenarios. This covers a comprehensive range of topics beginning with low level flight procedures, graduating to actual spray runs with progressively increased load sizes, as well as preparatory subjects such as calibration, GPS navigation, emergency dumping and repetitive load operations. Ground training will include setup, care and maintenance of all aerial application dispersal equipment.

Phase III – Applied Aerial Application Techniques

This phase provides course members with realistic aerial application scenarios covering a wide range of load sizes, application rates, calibration exercises, and in general, all aspects of a typical aerial application operation they will encounter on a daily basis. This phase culminates where the course member is given a work order and must evaluate and organize all aspects, both ground and air, of the work detail from determining the correct pesticide, ensuring the aircraft is properly calibrated for the appropriate application rate, to calculating successive load sizes that will optimize the specific task at hand.