



Category C Training Aid

All training to be conducted by instructors of the:



Category C

Two Jumps with Two USPA AFF Instructors on C-1 and One USPA AFF Instructor on C-2

By this time you have had the opportunity to learn relaxed, controlled, and stable freefall by using the procedure, "altitude, arch, legs, relax." You will begin this category with two AFF Instructors, but you will need to jump with only one before being able to advance to Category D. You need to establish confidence and relaxed freefall control. A controlled freefall in Category C may include some random heading drift, which you learn to lessen by relaxing and focusing on the basics: altitude, arch, legs, and relax. The instructor shows you more about how to plan a canopy pattern for various wind speeds and directions to improve traffic flow and avoid conflicts with obstacles and other jumpers. You learn to predict, avoid, and react to turbulence induced by wind over obstacles and heated areas. You will learn ways to approach an off-field landing, and your instructor explains how off-field landings may affect neighbor relations. You will meet the FAA-rated parachute rigger, who packs and maintains the reserve parachute. He or she will familiarize you with the closed parachute system, and you will observe the pre-flight equipment check. Emergency review includes discussion on an inadvertently opened parachute in and around the aircraft, as well as how to avoid and respond to it. In addition, your instructor also provides more details on recognizing and avoiding landing obstacles, as well as how to approach off-field landings.

Learning and Performance Objectives

- Unassisted freefall with heading maintenance
- Hover control
- Solo deployment
- Landing patterns for higher winds
- Downwind landings
- Wing loading
- Accidental opening review
- Turbulence
- Landing off
- Obstacle recognition
- The FAA rigger
- The closed parachute system

Rules and Recommendations

Student gear Basic Safety Requirements (BSR) (SIM Section 2-1.L.2 through 5)

1. All students are to be equipped with the following equipment until they have obtained a USPA license:
 - a. A rigid helmet (except tandem students)
 - b. A piggyback harness and container system that includes a single-point riser release and an RSL
 - c. A visually accessible altimeter (except tandem students)
 - d. A functional AAD that meets the manufacturer's recommended service schedule
 - e. A ram-air main canopy suitable for student use
 - f. A steerable reserve canopy appropriate to the student's weight
 - g. For freefall, a ripcord-activated, spring-loaded, pilot-chute-equipped main parachute or a bottom-of-container (BOC) throw-out pilot-chute
2. Students must receive additional ground instruction in emergency procedures and deployment-specific information before jumping any unfamiliar system.
3. For each harness-hold jump, each AFF rating holder supervising the jump must be equipped with a visually accessible altimeter.
4. All skydivers wearing a round main or reserve canopy and all solo students must wear flotation gear when the intended exit, opening, or landing point is within one mile of an open body of water (an open body of water is defined as one in which a skydiver could drown).



FAA regulations for the training and certification of the FAA rigger (FAR 65)

1. To be eligible for a parachute rigger certificate, a person must:
 - a. Be at least 18 years of age;
 - b. Be able to read, write, speak, and understand the English language, or, in the case of a citizen of Puerto Rico, or a person who is employed outside of the United States by a U.S. air carrier, and who does not meet this requirement, be issued a certificate that is valid only in Puerto Rico or while he is employed outside of the United States by that air carrier, as the case may be; and
 - c. Comply with the sections of FAR 65 that apply to the certificate and type rating he seeks.
2. Current or former military riggers are entitled to a senior parachute rigger certificate if he/she passes a written test on the regulations of FAR 65 and presents satisfactory documentary evidence that:
 - a. He/she is a member or civilian employee of an Armed Force of the United States, is a civilian employee of a regular armed force of a foreign country, or has, within the 12 months before he applies, been honorably discharged or released from any status covered by this paragraph;
 - b. He/she is serving, or has served within the 12 months before he/she applies, as a parachute rigger for such an Armed Force; and
 - c. He/she has the experience required listed below for a senior parachute rigger certificate.
3. All other applicants for a senior parachute rigger certificate must meet the following requirements:
 - a. Present evidence satisfactory to the Administrator that he/she has packed at least 20 parachutes of each type for which he/she seeks a rating, in accordance with the manufacturer's instructions and under the supervision of a certificated parachute rigger holding a rating for that type or a person holding an appropriate military rating.
 - b. Pass a written test, with respect to parachutes in common use, on:
 - (1) Their construction, packing, and maintenance;
 - (2) The manufacturer's instructions;
 - (3) The regulations of FAR 65; and
 - c. Pass an oral and practical test showing his/her ability to pack and maintain at least one type of parachute in common use, appropriate to the type rating he/she seeks.
4. An applicant for a master parachute rigger certificate must meet the following requirements:
 - a. Present evidence satisfactory to the Administrator that he/she has had at least three years of experience as a senior parachute rigger and has satisfactorily packed at least 100 parachutes of each of two types in common use, in accordance with the manufacturer's instructions:
 - (1) While a certificated and appropriately rated senior parachute rigger; and/or
 - (2) While under the supervision of a certificated and appropriately rated parachute rigger or a person holding appropriate military ratings.
 - (3) An applicant may combine experience specified above to meet these requirements.
 - b. If the applicant is not the holder of a senior parachute rigger certificate, pass a written test, with respect to parachutes in common use, on:
 - (1) Their construction, packing, and maintenance;
 - (2) The manufacturer's instructions; and
 - (3) The regulations of FAR 65.
 - c. Pass an oral and practical test showing his/her ability to pack and maintain two types of parachutes in common use, appropriate to the type ratings he/she seeks.

Study FAR 105.43.b.1 regarding periodic inspection and repacking of reserves

The reserve parachute must have been packed by a certificated parachute rigger within 180 days before the date of its use, if its canopy, shroud, and harness are composed exclusively of nylon, rayon, or similar synthetic fiber or material that is substantially resistant to damage from mold, mildew, and other fungi, and other rotting agents propagated in a moist environment.



Equipment

1. The automatic activation device (AAD):
 - a. Activates the main or reserve parachute.
 - b. Is worn only as a backup.

(Note: Detailed AAD operation is explained in Category D.)
2. Observe the instructor performing the pre-flight check:
 - a. Top to bottom, (back):
 - (1) Reserve pin in place and straight
 - (2) Reserve closing loop worn no more than 10%
 - (3) Reserve ripcord cable movement in housing
 - (4) Reserve packing data card and seal (especially on an unfamiliar or rental rig)
 - (5) AAD turned on and/or calibrated
 - (6) Main activation cable or pin in place, free of nicks or kinks
 - (7) Main closing loop worn no more than 10%
 - (8) Pilot-chute bridle routing or ripcord cable movement
 - (9) Main activation handle in place
 - b. Top to bottom, (front):
 - (1) Overview operation of three-ring release: pulling the cable releases the rings
(Note: Pre-flight details for the three-ring release are covered in Category D. Disassembly and maintenance is explained in Category H.)
 - (2) RSL connection, routing, and basic function to back up the jumper in pulling the reserve following a cutaway *(Note: Comprehensive RSL operation is explained in Category E.)*
 - (3) Chest strap and hardware intact
 - (4) Cutaway handle in position
 - (5) Reserve handle in position
 - (6) Leg straps and hardware operational and correctly threaded

Spotting and Aircraft

1. The landing pattern is square on a calm day, with each leg based on the canopy's projected glide distance from 300 feet of altitude (see Illustration C.1 on page 17).
 - a. Each jumper must know his or her own canopy's glide distance from 300 feet in no wind to plan a pattern.
 - b. The instructor estimates the 300-foot no-wind glide distance for beginning students (~600 feet).
2. The planned final approach must be shortened from the known zero-wind square pattern as the wind increases; for example, cut the final approach approximately in half for ten mph.
3. The base leg also shortens as the wind increases; for example, also cut the base leg approximately in half for a ten-mph wind.
4. Plan the 1,000-foot pattern entry point farther upwind as winds increase; for example, double the length of the downwind leg used for calm conditions, ending at the new projected 600-foot point for ten-mph winds.



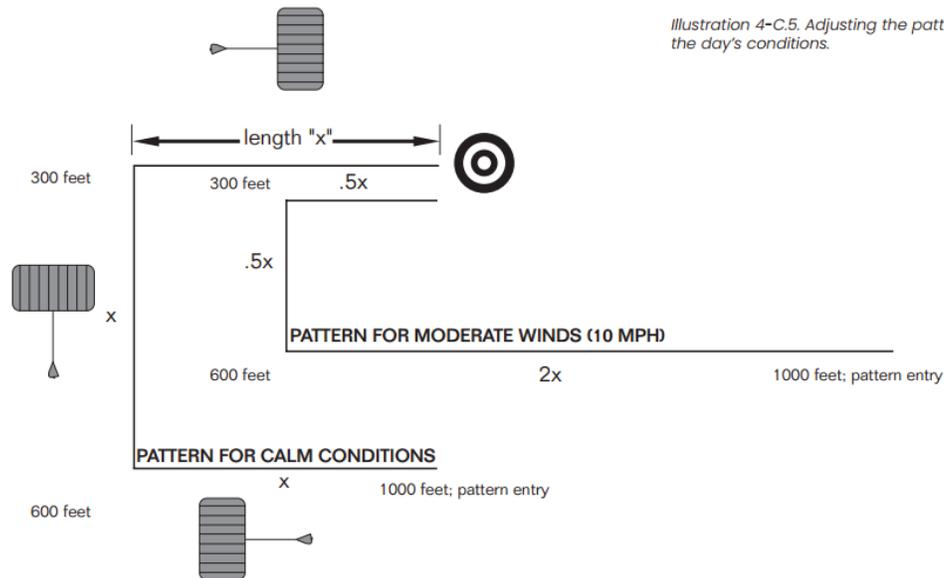


Illustration C.1 - Adjusting the pattern for the day's conditions

Exit and Freefall

1. Review of smooth climb-out and exit (minimal assistance):
 - a. Exact hand and foot placement (right hand, right foot, left hand, left foot)
 - b. Smooth launch to reduce momentum
 - c. Correct presentation of hips and chest to the relative wind
 - d. Legs out for a few seconds to add control
2. Single-instructor exit (second AFF jump in Category C):
 - a. Revise the climb-out procedure for one instructor.
 - b. Prepare for slightly different results after launch with one instructor (typically more vertical).
3. Review of stability recovery and maintenance "altitude, arch, legs, relax":
 - a. A.I.R.: Provided you are **A**ltitude aware, **I**n control, and **R**elaxed (AIR), you may continue in freefall and deploy at the assigned altitude.
 - b. Five-Second Rule: If you are above your assigned deployment altitude but cannot control your freefall (spinning rapidly or tumbling) for more than five seconds, deploy your main canopy immediately. Deploy your main canopy at the assigned deployment altitude regardless of stability.
 - c. Roll-Out-of-Bed (ROB) Technique: If you are above your assigned deployment altitude and falling in a back-to-earth orientation, roll to one side to recover to a stable, belly-to-earth body position. Check altitude, arch, look towards the ground to the right, and bring the right arm in across your chest. Once your body rolls to the right and your belly is facing the ground, bring your right arm back to the freefall position. Check altitude.
 - d. Know the altitude by reading the altimeter or counting from exit (depending on exit altitude).
 - e. Arch at the hips to improve belly-to-wind stability.
 - f. Check your leg position and adjust as needed (probably extend to 45 degrees).
 - g. Relax by taking a breath and letting go of unwanted body tension.
 - h. Recognize heading changes and actively correct as jump continues.
4. Alternate freefall altitude references:
 - a. Judge altitude by keeping track of time (~10 sec. for first 1,000' & ~5.5 sec. per 1,000' thereafter)
 - b. Look at the ground during the climb to altitude and cross check against the altimeter.
 - c. Observe the cloud bases on the ride to altitude to use later as an altitude reference.
 - d. Look at the ground after initiating deployment and while waiting for inflation; check what you observed against the altimeter after opening.



Emergency Procedure Review

1. Open parachute in aircraft:
 - a. Extreme care is required when leaning back against anything in aircraft.
 - (1) Be mindful of the size of the parachute equipment when climbing into and moving about the aircraft.
 - (2) Minimum, careful movement in the aircraft and during climb-out and exit helps prevent premature activation.
 - b. Importance of a pre-jump equipment check before leaving the aircraft.
 - c. Importance of careful movement near or outside the door, especially with an AAD.
 - (1) Use caution when wearing an AAD, especially near an open aircraft door and during climb-out.
 - d. If a parachute opens in the plane:
 - (1) If door is closed, secure the open parachute, inform an instructor, and land with the plane.
 - (2) If the door is open, contain the open parachute, close the door, and land with the plane.
 - (3) If the parachute goes out the door, so must the jumper.
2. Review pull priorities are in the following order of importance (top down):
 - (1) Pull! Pull! Pull! **ALWAYS PULL, REGARDLESS OF ALTITUDE OR STABILITY!**
 - (2) Pull at the correct altitude! Always deploy at the planned altitude, regardless of stability!
 - (3) Pull at the correct altitude while stable.
3. If an off-DZ landing is unavoidable:
 - a. Look for an open, clear, accessible field.
 - b. Decide on an alternate landing area by 2,000 feet.
 - c. Fly a predictable landing pattern.
 - d. Transpose the planned landing pattern from the intended field onto the alternate field.
 - e. Land well clear of turbulence and obstacles.
 - f. Prepare for a hard landing in any unfamiliar landing area.
 - g. Be considerate of the property and be polite to its owner when leaving the landing area:
 - (1) Cross only at gates or reinforced areas.
 - (2) Leave all gates as they are found.
 - (3) Do not disturb cattle.
 - (4) Walk parallel to (between) any rows of crops until reaching the end of the field.
 - (5) Notify the owner of any damaged property and repair or replace it (USPA will cover the costs).
4. Review of landing priorities:
 - a. Land with the wing level & flying in a straight line, at least for the last ten seconds of canopy flight.
 - b. Land in an open area, at least 330 feet clear of any obstacles.
 - c. Flare to at least the half-brake position and prepare to perform a parachute-landing fall (PLF).
5. Collapse an inflated canopy on landing by pulling in one toggle and running toward it.

Canopy

1. Wing loading and canopy size:
 - a. The wing-loading ratio is the jumper's exit weight (geared up) divided by the square footage of the canopy.
 - b. The canopy manufacturer publishes wing loading or load recommendations for each model of canopy:
 - (1) In the canopy owner's manual
 - (2) On the manufacturer's website
 - (a) Performance Designs (PD) recommends the following maximum exit weights for students on the following Navigator canopy sizes:
 1. 200 square feet: 130 pounds manufacturer recommended maximum student exit weight
 2. 220 square feet: 154 pounds manufacturer recommended maximum student exit weight
 3. 240 square feet: 180 pounds manufacturer recommended maximum student exit weight
 4. 260 square feet: 254 pounds manufacturer recommended maximum student exit weight
 5. 280 square feet: 270 pounds manufacturer recommended maximum student exit weight
 6. 300 square feet: 290 pounds manufacturer recommended maximum student exit weight
 - c. Canopy performance changes with wing loading:
 - (1) With a heavier wing loading, expect:
 - (a) Faster forward speed
 - (b) Faster descent rate
 - (c) Quicker turns
 - (d) Steeper and longer dive from a turn
 - (e) More violent malfunctions
 - (f) More skill to flare correctly
 - (2) With a lighter wing loading, expect:
 - (a) Less drive against a strong wind
 - (b) Slower turns
 - (c) More forgiveness of landing errors
 - (d) Less predictable in turbulence
 - d. Use the examples below to calculate your own wing loading for the canopy you are about to jump (one of the Category C advancement criteria) (see Illustration C.2 below):

WING LOADING EXAMPLES	
A jumper's exit weight (pounds)	215
divided by canopy size (sq. ft.)	/280
equals his/her wing loading:	=0.77:1
A jumper's exit weight (pounds)	215
divided by canopy size (sq. ft.)	/195
equals his/her wing loading:	=1.1:1

Illustration C.2 - Examples of how to calculate wing loading

- e. Canopies may appear easier to land with more weight, to a point:
 - (1) A good landing in ideal conditions does not mean a smaller canopy is safe to jump in all conditions.
 - (2) A more highly loaded canopy will stall at a higher airspeed.
- f. With the same wing loading a smaller canopy of the same model will exhibit more lively performance characteristics:
 - (1) Faster turns and turn response
 - (2) Quicker dynamic stall response



2. Converting forward speed to lift:

- a. Flaring the canopy quickly to half brakes causes the canopy to slow down abruptly.
- b. Your momentum causes you to swing forward briefly, raising the front of the canopy and flattening the glide.
- c. Continue to flare, braking the canopy more and holding the high nose angle to maintain your lift while reducing the forward speed.
- d. Time your flare so your feet touch the ground before you begin to swing back under the canopy (dynamic stall) or begin to fly backwards (full stall) (see Illustration C.3 below).

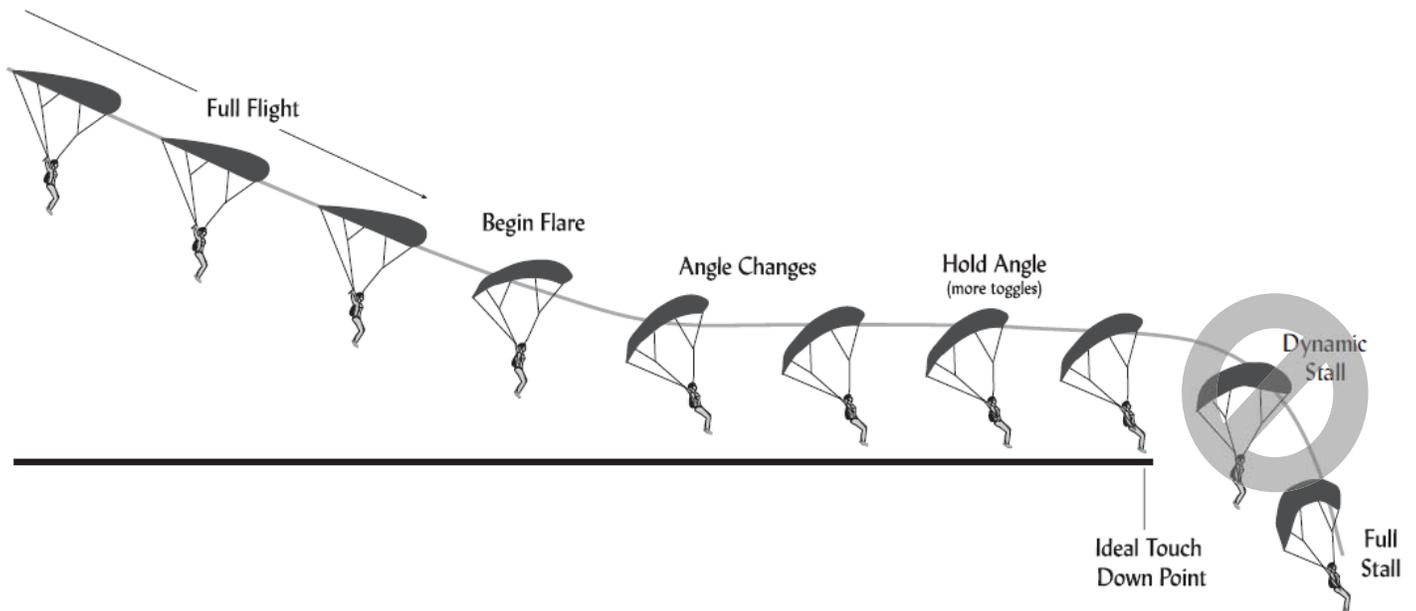
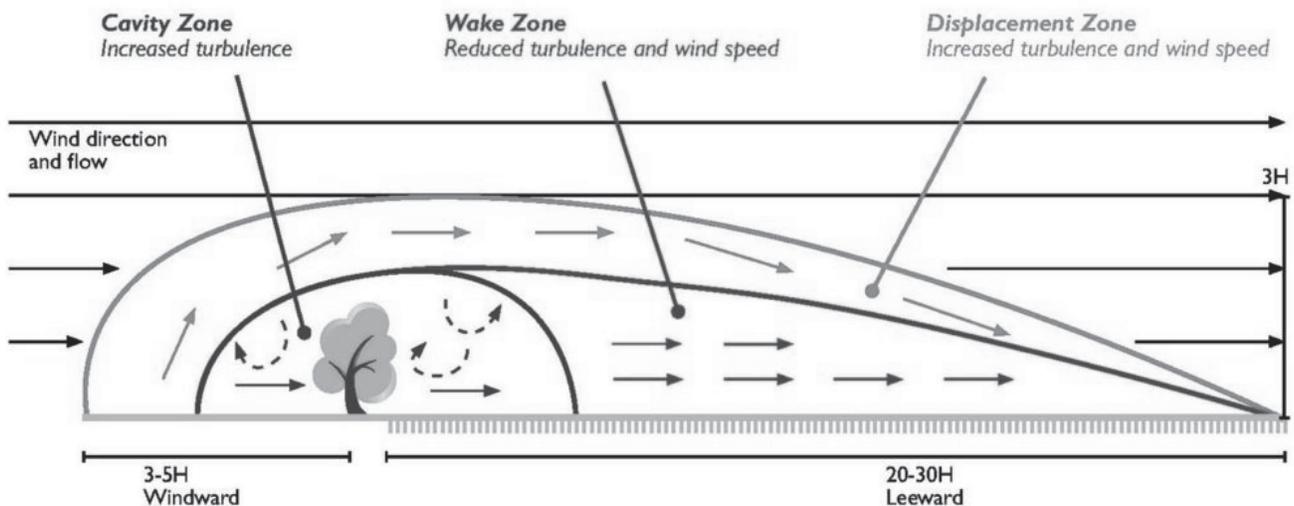


Illustration C.3 - When flared perfectly, the canopy lets the jumper down just prior to the stall.

3. Turbulence sometimes occurs in the landing area:

- a. Anticipate turbulence up to 5 times the height of an obstacle on the upwind side, up to 35 times its height on the downwind side, & up to 3 times its height vertically in these areas (see illustration).



Turbulence occurs downwind of an obstacle at up to 35 times its height, depending on the wind's strength.

- b. The effects and likelihood of turbulence increase with wind speed.
- (1) A general rule of thumb is to multiply the current wind speed in miles per hour by the height of the obstacle in feet to get the distance in feet at which turbulence can be expected on the downwind side of the obstacle. For example, a 10-mph wind can create turbulence on the downwind side of a 100-foot tree within at least 1,000 feet horizontally.
- c. Turbulence often occurs:
- (1) Near runways
 - (2) Alongside roads
 - (3) Where two areas of different colors or textures meet
 - (4) Behind other canopies (wake turbulence)
 - (5) Over irregular terrain
 - (6) Downwind of the propeller wash of a taxiing aircraft (see Illustration C.5 below)

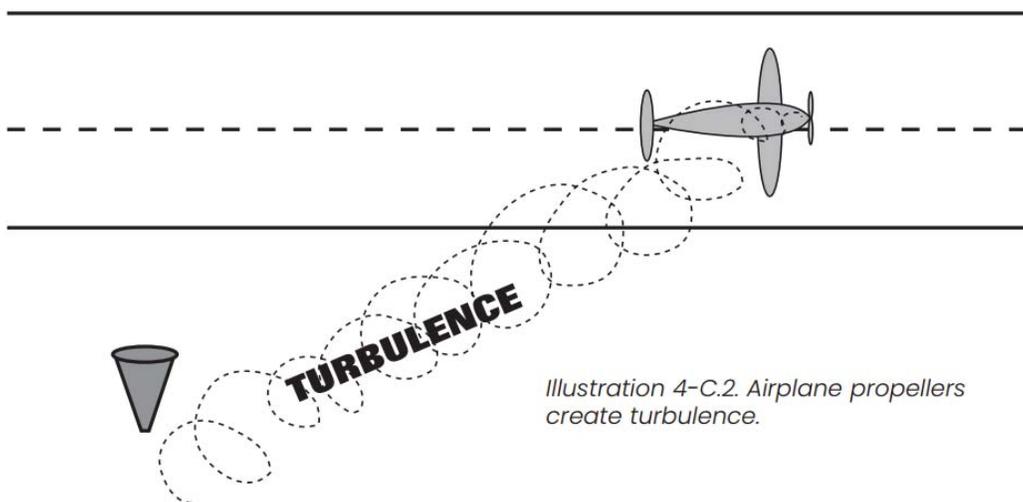


Illustration 4-C.2. Airplane propellers create turbulence.

Illustration C.5 - Airplane propellers create turbulence.

4. When flying in turbulence:
- a. Maintain the desired heading using smooth but effective toggle input.
 - b. Fly full speed or as directed in canopy owner's manual.
 - c. Prepare for a hard landing.
5. Recognition of a clear field:
- a. Power lines run along roads and between buildings, as well as randomly in open fields.
 - b. A row of vegetation often hides a fence.
 - c. Rocks, hills, and other terrain irregularities often remain invisible until just prior to touchdown.
 - d. Inspect an unfamiliar landing area more closely at every 500-foot interval during descent and continuously below 500 feet.
6. Downwind landings are better than low turns:
- a. On calm days, unexpected wind shifts sometimes require jumpers to land with a light wind, instead of against it.
 - b. On windy days, jumpers sometimes fly downwind too long and run out of time to complete a turn into the wind, also requiring them to land with the wind.
 - c. When faced with deciding between a low turn and a downwind landing, the downwind landing is the correct decision.
 - d. When making a downwind landing:
 - (1) Flare at the normal altitude, regardless of ground speed.
 - (2) Roll on landing, using the PLF hard-landing procedure.
 - (3) Tripping when trying to run out a high-speed landing can result in serious neck injury or death.

7. Planning a landing pattern (intended landing area or alternate) for smooth flow and separation of traffic (see Illustration C.6 below):
 - a. Jumpers on left-hand (left-turning) approaches should land on the left side of the landing area; jumpers on right-hand approaches should land on the right side of the landing area to prevent conflicts.
 - b. The turn from base leg to final is the most hazardous because of opposite approaching traffic.
 - c. Look and avoid.

Collision-Free Landing Approaches

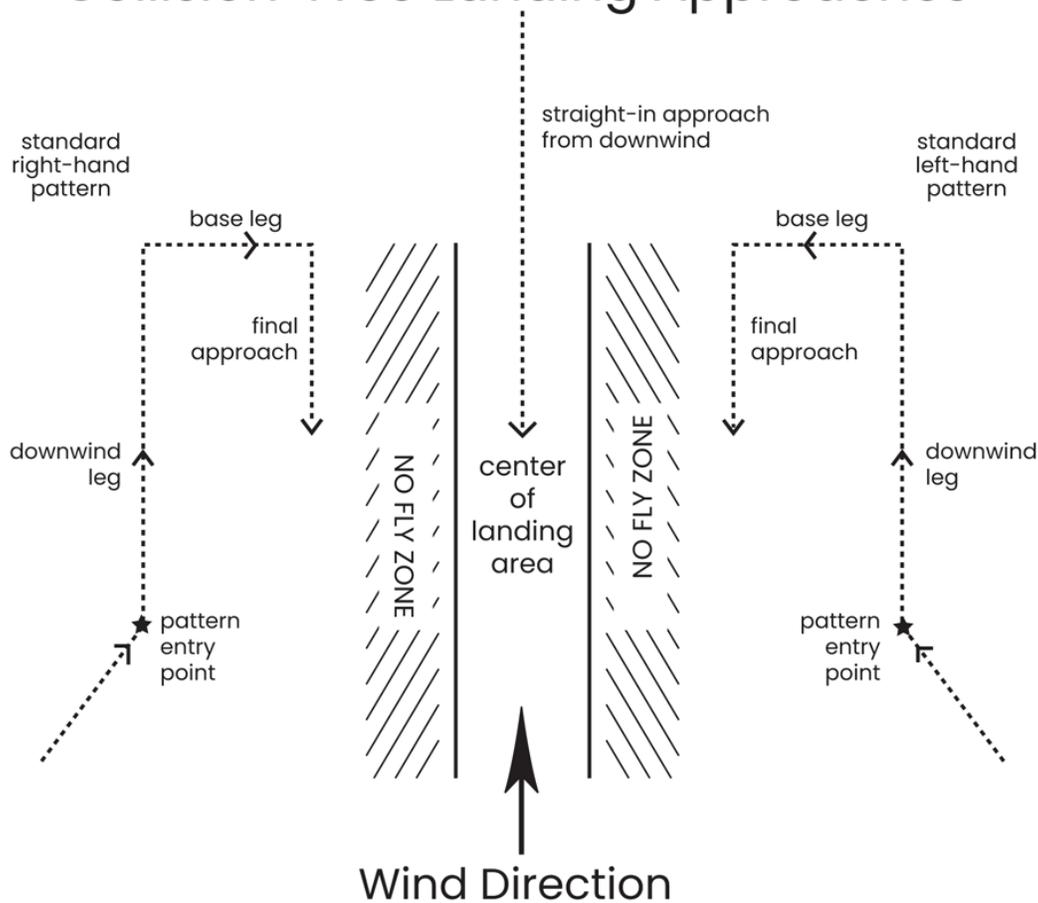


Illustration C.6 - Jumpers flying a right-hand pattern should land on the right side of the field; jumpers flying a left-hand pattern should land on the left side of the field.

8. When to attempt a stand-up landing (all must be met, otherwise perform a Parachute-Landing Fall):
 - a. When you are in control of all of the variables (i.e. you flew the planned pattern and landed directly into the wind onto the planned target with a level wing and a fully functioning main parachute).
 - b. After a good full flare at the appropriate altitude (when your feet are about 10' above the ground).
 - c. Only if you touch down softly and you are confident that you can comfortably remain on your feet.

Category C Quiz

(Must be passed before Category C-1 jump.)

- 1. In flat and stable freefall at terminal velocity, how long does it take an average jumper to fall 1,000 feet?**
 - a) 4.5 seconds
 - b) 5.5 seconds
 - c) 6.0 seconds
- 2. What is the correct procedure for recovering from instability to the belly-to-earth position?**
 - a) Be more aggressive in your body position.
 - b) Altitude, arch, legs, relax.
 - c) De-arch, relax.
- 3. Which is better, to pull at the planned altitude or to fall lower to get stable before pulling?**
 - a) Always be stable before pulling.
 - b) Pull above the planned altitude if you know you will not be stable.
 - c) Pull at the planned altitude, regardless of stability.
- 4. What is the purpose of the wave-off before deployment?**
 - a) To signal other jumpers
 - b) To get stable before pulling
 - c) To relax in preparation for deployment
- 5. What is the purpose of the parachute-landing fall (PLF), & why is it important for skydivers?**
 - a) PLF allows skydivers to land in any location safely
 - b) It protects against hard landings, and all skydivers have hard landings.
 - c) It helps protect your gear.
- 6. What part of the landing pattern is most dangerous to skydivers?**
 - a) The intersection of the base and final approach legs
 - b) The last 20 feet of the landing leg
 - c) Entry into the downwind leg
- 7. How do higher wind speeds affect the planned landing pattern as compared to the pattern plan for a calm day?**
 - a) Lengthens the final approach, shortens the base leg, lengthens the downwind leg, and places the planned pattern entry point farther upwind.
 - b) Shortens the final approach, shortens the base leg, lengthens the downwind leg, and places the planned pattern entry point farther upwind.
 - c) Shortens the final approach, lengthens the base leg, lengthens the downwind leg, and places the planned pattern entry point farther downwind.
- 8. In moderately strong winds, how far downwind of an obstacle might you find turbulence?**
 - a) 1-3 times the height of the obstacle.
 - b) 5-10 times the height of the obstacle.
 - c) 10-20 times the height of the obstacle.
- 9. What is the best procedure to use when flying your canopy in turbulent conditions?**
 - a) Fly your canopy at half-brakes.
 - b) Keep the canopy flying in a straight line at full flight (or as directed by the owner's manual).
 - c) Fly in a zigzag pattern at full flight (or as directed by the owner's manual).



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- 10. Why is it important to protect your parachute system operation handles when in and around the aircraft?**
- Keeps them in place and prevents accidental or premature deployment
 - Protects them from corrosive aircraft exhaust
 - Reinforces muscle memory of handle locations
- 11. What is the equipment pre-flight strategy to use before putting on your gear?**
- Metal parts first, fabric second, plastic third
 - Top to bottom, back to front
 - Manifest check, instructor check, pilot check
- 12. How does the three-ring main canopy release system disconnect the main parachute from the harness?**
- Cuts the risers
 - Pulls the cables to release the cloth loop
 - Pulls the cables to release the reserve closing-pin
- 13. How do you know if a reserve parachute has been packed by an FAA rigger within the last 180 days?**
- Rigger's packing seal on the reserve ripcord.
 - Information found on the reserve packing data card.
 - Drop-zone administrative records.
- 14. How do you know the reserve container has not been opened since the FAA rigger last closed it?**
- Rigger's packing seal on the reserve ripcord.
 - Information found on the reserve packing data card.
 - Drop-zone administrative records.
- 15. If the surface winds are blowing from west to east, which direction will you face to fly the downwind leg of the landing pattern (instructor's illustration)?**
- West
 - East
 - North
- 16. How is wing loading calculated?**
- Divide the exit weight by the square footage.
 - Divide the square footage by the exit weight.
 - Divide the jumper's weight by the square footage.
- 17. Which canopy size (same model design) will exhibit quicker control response?**
- 210-square feet with a 210-pound jumper (geared up).
 - 190-square feet with a 190-pound jumper (geared up).
 - 170 square feet with a 170-pound jumper (geared up).
- 18. When is it OK to attempt a stand-up landing?**
- When the winds are between 5-10 mph
 - When the jumper has control of all variables & has executed a good flare at the appropriate altitude
 - When the parachute is open, square, steerable, and able to be landed

Category C Dive Flows

Two Jumps with Two USPA AFF Instructors on C-1 and One USPA AFF Instructor on C-2

C-1 Freefall Dive Flow

- Stable poised “praying” exit with a relaxed arch & 2 gripped instructors (must be stable w/in 5 secs).
- Perform the first full Circle of Awareness.
- Three smooth practice touches without assistance.
- Perform the second full Circle of Awareness.
- Perform two toe taps.
- Instructors release grips as situation allows.
(Must earn release with stability in order to pass.)
- Short Circles of Awareness every 3-5 seconds.
(Altitude, Arch, Legs, Relax, Correct Turn if needed)
- Instructors make sure of student control by 6,000’ and regrip through deployment (only if needed).
- Lock on at 6,000 feet (must be altitude aware).
- Wave-off at 5,500 feet (must do so to pass).
- Deploy by 5,000 feet (must do so stable & without any instructor assistance or prompting to pass).

C-2 Freefall Dive Flow

- Stable poised “praying” exit with a relaxed arch & 1 gripped instructor (must be stable w/in 5 secs).
- Perform the first full Circle of Awareness.
- Three smooth practice touches without assistance.
- Perform the second full Circle of Awareness.
- Perform two toe taps.
- Instructor releases grips as situation allows.
(Must earn release with stability in order to pass.)
- Short Circles of Awareness every 3-5 seconds.
(Altitude, Arch, Legs, Relax, Correct Turn if needed)
- Instructor makes sure of student control by 6,000’ & regrips through deployment only if needed.
(Student must be stable w/o assistance to pass.)
- Lock on at 6,000 feet (must be altitude aware).
- Wave-off at 5,500 feet (must do so to pass).
- Deploy by 5,000 feet (must do so stable & without any instructor contact or prompting to pass).

Canopy Dive Flow

(Same dive flow for both Category C jumps.)

- Check altitude within three seconds of deploying.
- Assess the canopy by asking, “Is it there? Is it square? Is it straight, stable, and steerable?”
- Correct any common canopy problems by 2,500’.
- Unstow the toggles from half brakes by pulling them down to your groin & letting them back up.
- Check altitude, air traffic, & position over ground.
- Perform a full flare and hold it for five seconds.
- Smoothly let toggles all the way back up to return the canopy to full flight.
- Check altitude, air traffic, & position over ground.
- Look right and turn right at least 90°.
- Check altitude, air traffic, & position over ground.
- Look left and turn left at least 90°.
- Check altitude, air traffic, & position over ground.
- Perform a full flare and hold it for five seconds.
- Smoothly let toggles all the way back up to return the canopy to full flight.
- Check altitude, air traffic, & position over ground.
- Find landing area and pattern entry point.
- Divide flight path by thousands of feet.
- Look at runway and determine compass heading.
- Identify suspect areas of turbulence.
- Identify all power lines in the area during descent.
- Continue to scan for obstacles every 500 feet.
- Verify landing pattern and adjust as necessary.
- Steer over the correct portion of the flight path & continue to stay in the holding area until 1,000 ft.
- Look for obstacles around the landing area.
- Follow pre-assigned pattern over the planned or alternate landing area.
- Scan for obstacles from base until landing.
- Prepare for a PLF once on final at 300 feet.
- Begin to flare quickly to half brakes at ten feet.
- Finish flare to groin just before the balls of your feet touch the ground.

Advancement Criteria

Exit and Freefall

- Demonstrate the ability to freefall safely with one USPA AFF Instructor
- Stable deployment without instructor contact
- Control within five seconds of exit
- Stable, relaxed freefall
- Ability to dampen turns and heading drift using “altitude, arch, legs, relax, correct turn”
- Wave-off and pull at the assigned altitude

Canopy

- Fly a recognizable pattern with minimal assistance
- Flare with minimal assistance

Spotting and Aircraft

- Understanding of how to plan and adjust the landing pattern for wind speed and direction