

#### IV. Takeoffs, Landings, and Go-Arounds

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| <b>Task</b>            | <b>B. Normal Approach and Landing</b>  |
| <b>References</b>      | FAA-H-8083-2, FAA-H-8083-3, FAA-H-8083-23; POH/AFM; AIM  |
| <b>Objective</b>       | To determine that the applicant exhibits satisfactory knowledge, risk management, and skills associated with a normal approach and landing with emphasis on proper use of flight controls.<br><br><b>Note:</b> <i>If a crosswind condition does not exist, the applicant's knowledge of crosswind elements must be evaluated through oral testing.</i> |
| <b>Knowledge</b>       | The applicant demonstrates understanding of:   |
| PA.IV.B.K1             | A stabilized approach, to include energy management concepts.  |
| PA.IV.B.K2             | Effects of atmospheric conditions, including wind, on approach and landing performance.  |
| PA.IV.B.K3             | Wind correction techniques on approach and landing.  |
| <b>Risk Management</b> | The applicant demonstrates the ability to identify, assess and mitigate risks, encompassing:   |
| PA.IV.B.R1             | Selection of runway or approach path and touchdown area based on pilot capability, airplane performance and limitations, available distance, and wind.   |
| PA.IV.B.R2             | Effects of:  |
| PA.IV.B.R2a            | a. Crosswind   |
| PA.IV.B.R2b            | b. Windshear   |
| PA.IV.B.R2c            | c. Tailwind  |
| PA.IV.B.R2d            | d. Wake turbulence   |
| PA.IV.B.R2e            | e. Runway surface/condition  |
| PA.IV.B.R3             | Planning for:  |
| PA.IV.B.R3a            | a. Go-around and rejected landing  |
| PA.IV.B.R3b            | b. Land and hold short operations (LAHSO)  |
| PA.IV.B.R4             | Collision hazards, to include aircraft, terrain, obstacles, wires, vehicles, vessels, persons, and wildlife.   |
| PA.IV.B.R5             | Low altitude maneuvering including stall, spin, or CFIT.   |
| PA.IV.B.R6             | Distractions, loss of situational awareness, incorrect airport surface approach and landing, or improper task management.  |
| <b>Skills</b>          | The applicant demonstrates the ability to:   |
| PA.IV.B.S1             | Complete the appropriate checklist.  |
| PA.IV.B.S2             | Make radio calls as appropriate.   |
| PA.IV.B.S3             | Ensure the airplane is aligned with the correct/assigned runway or landing surface.  |
| PA.IV.B.S4             | Scan runway or landing surface and the adjoining area for traffic and obstructions.  |
| PA.IV.B.S5             | Select and aim for a suitable touchdown point considering the wind, landing surface, and obstructions.   |
| PA.IV.B.S6             | Establish the recommended approach and landing configuration and airspeed, and adjust pitch attitude and power as required to maintain a stabilized approach.  |
| PA.IV.B.S7             | Maintain manufacturer's published approach airspeed or in its absence not more than 1.3 $V_{SO}$ , +10/-5 knots with gust factor applied.  |
| PA.IV.B.S8             | Maintain directional control and appropriate crosswind correction throughout the approach and landing.   |
| PA.IV.B.S9             | Make smooth, timely, and correct control application during round out and touchdown.   |
| PA.IV.B.S10            | Touch down at a proper pitch attitude, within 400 feet beyond or on the specified point, with no side drift, and with the airplane's longitudinal axis aligned with and over the runway center/landing path.   |
| PA.IV.B.S11            | Execute a timely go-around if the approach cannot be made within the tolerances specified above or for any other condition that may result in an unsafe approach or landing.   |
| PA.IV.B.S12            | Utilize runway incursion avoidance procedures.   |

**Know and be able to explain for effects listed above.**