

Basic Flight Training Syllabus - Phase I

Task #1 Ground Support Equipment, Engine Starting, And Taxi Training

Goals:

- Perform aircraft preparation and inspection.
- Perform engine start and radio checks.
- Perform taxi course.

Task #2 Orientation Flight

Goals:

- Observe orientation flight.
- Note ground and flight safety restrictions.

Task #3 Basic Flight Skills Development

Goals:

- Become familiar with speed, yaw, pitch, and roll commands.
- Become familiar with flight trim techniques.
- Execute straight and level flight.
- Execute right and left turns.

Task #4 Takeoff

Goals:

- Execute proper upwind takeoff runway alignment.
- Initiate takeoff throttle setting.
- Maintain runway center-line ground steering during takeoff acceleration.
- Execute takeoff rotation at proper speed.
- Execute proper climb speed, pitch, and bank angle.
- Perform a takeoff abort if required.

Task #5 Turns

Goals:

- Perform level shallow turns (left and right) at approximately a 20° bank angle.
- Perform level medium turns (left and right) at approximately a 40° bank angle.
- Perform level steep turns (left and right) at approximately a 60° bank angle.
- Execute shallow, medium, and steep (left and right), level flight, at low, medium, and full speeds.
- Execute turns in a designated area.

Task #6 Planning Maneuvers

Goals:

- Perform level rectangular pattern (left and right) as well as figure-eights over specific ground locations.
- Apply crosswind technique to maintain proper ground tracking during planning maneuvers.

Task #7 Landing Pattern and Go-Around

Goals:

- Execute upwind landing patterns.
- Execute crosswind landing patterns.
- Execute downwind landing patterns.
- Perform go-around at a six-foot height on final approach.

Task #8 Touch-and-Go Landing

Goals:

- Perform traffic patterns, final approach, and touchdown, followed by power application and pattern reentry.
- Perform normal and crosswind traffic patterns with touch-and-go maneuvers.

Task #9 Full Stop Landing and Supervised Solo

Goals:

- Execute full-stop landing, followed by taxi back and takeoff.
- Execute simulated engine failure landings.
- Perform a supervised solo flight.
- Be prepared for simulated engine failure calls from the instructor, regardless of position in the pattern. Upon receiving the call, immediately pull throttle to idle and safely land aircraft on runway.

Task #10 Supervised Solo Proficiency/Mid-Phase Evaluation Review

Goals:

- Practice tasks 1 through 9 maneuvers.
- Place additional emphasis on instructor-recommended areas of needed improvement.

Task #11 Mid-Phase Evaluation Task

Goals:

- Perform the sequence of maneuvers required during the mid-phase evaluation.
- Review mid-phase I flight evaluation results and discuss strengths and weaknesses with instructors.

Task #12 Airspeed Control Maneuvers

Goals:

- Perform full, medium, and slow speed rectangular patterns (left and right) as well as figure-eights from level flight.
- Execute a constant speed climbing rectangular pattern as well as figure-eights.
- Execute a constant glide rectangular pattern as well as figure-eights.
- Perform all maneuvers over designated ground locations.

Task #13 Power-On Spot Landing

Goals:

- Perform near-stalled touchdowns on the runway with power on.
- Perform near-stalled touchdowns within six-feet of runway center-line.
- Perform touchdowns within a 100-foot long touchdown zone, within six-feet of runway center-line, graduating to a 50-foot long touchdown zone.
- Execute a go-around whenever a overshoot landing conditions exist.

Task #14 Power-Off (idle) Spot Landing

Goals:

- Perform a near-stalled touchdown on the runway with power off (idle).
- Adjust landing pattern to touch down within six-feet of runway center-line with power off (idle).
- Adjust landing pattern to touch down within six-feet of runway center-line and within a 100-foot long touchdown zone. With power off (idle).

Task #15 Touch-and-Go Landing

Goals:

- Practice all maneuvers accomplished during tasks 1 through 14 of Basic Flight Training Phase I.
- Perform Phase I Final Evaluation Flight.
- Review flight test results and critique with instructor.