

Objectives: Lazy 8s

- Be able to perform lazy 8s.
- Continue to develop situational awareness and division of attention skills.

Equipment:

- Chalkboard or paper and pencil
- Model airplane to explain maneuvers

Elements:

1. Ground - Pre-flight briefing
 - Explain lazy 8s and demonstrate with model airplane.
 - Explain using key 45, 90, 135, 180 reference points.
 - Stress smooth constant changes of pitch and bank.
 - Student asks questions concerning previous lessons and/or this one.
2. Flight - Lazy 8s
 - Go over procedures for lazy 8s again.
 - Select an entry altitude > 1,500 AGL.
 - Perform clearing turns prior to starting the maneuver.
 - Establish the entry speed recommended by the airplane manufacturer or VA.
 - Select a prominent reference point.
 - Demonstrate and explain the maneuver with student following on controls.
 - Perform the maneuver with constantly changing pitch, bank and turn rate.
 - 15 bank and maximum pitch up at the 45 point.
 - 30 bank and level pitch attitude at the 90 point.
 - 15 bank and maximum pitch down at the 135 point
 - Level attitude at the 180 points; altitude and airspeed +/- 100 feet and +/- 10 Knots of entry.
 - Heading tolerance +/- 10 at the 180 points.
 - Have student perform the maneuver to both left and right.

Completion Standards:

This lesson is complete when the student is able to perform lazy 8s as specified in the *Elements* section.

Common Errors:

- Entering the maneuver above VA or the manufacturers recommend airspeed.
- Coordination, particularly in left hand turns, which might require right rudder.
- Not hitting the proper airspeed/altitude at the 180 points due to improper control inputs.
- Fixating on the instruments.

References:

POH for the airplane used.

FTH; Pages 161 164.

COMM-ASEL PTS Area of Operation V Tasks B and C.

Jeppesen Instrument/Commercial Manual 14-17 to 14-20

Possible Review Questions:

1. VA is the airplanes _____ . What is it for this airplane? Why is it important?
2. When performing a lazy 8, the maximum pitch occurs at the _____ degree point in the maneuver.
3. When performing the lazy 8, the maximum bank occurs at the _____ degree point in the maneuver.