

# Instrument Pilot Flight Instruction Lesson Plan

## Air Traffic Control Arrival and Approach Clearances

Student: \_\_\_\_\_ Date: \_\_\_\_\_

### Objectives:

Upon completion of this lesson, the student will:

- Be able copy and correctly read back air traffic control approach clearances in a timely manner, using standard phraseology.
- Be able to determine whether or not it is possible to comply with an ATC clearance.
- Set communications and navigation equipment based on ATC clearances.
- Be able to fly the airplane in compliance with ATC clearances.

### Elements:

- ATC Clearances
  - STARs
  - Approach clearances
  - Altitude assignments and restrictions
- Holding instructions
- Clearance readback
- Clearance shorthand notation
- Adherence to ATC clearances in flight

### Schedule:

• Pre-lesson briefing	00:05
• Preflight airplane	00:10
• Receive, copy and readback departure and route clearance from instructor	00:05
• Fly route as prescribed by clearance and simulated ATC instructions en-route	00:20
• Receive, copy and readback simulated ATC arrival and approach procedure	00:05
• Fly the arrival and approach procedures as cleared	00:10
• Repeat for several different arrival and approach procedures	00:25
• Post-lesson debriefing	00:10
Total:	01:30

### Equipment:

- CRAFT – RVR Forms
- Appropriate Departure procedure, STARs and Approach charts.
- Appropriate IFR en-route charts.
- Airplane suitably equipped for IFR flight
- View limiting device

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### Instructor Actions:

1. Pre-lesson briefing
  - Present lesson objective and outline of the lesson.
2. Preflight airplane.
  - Observe that the student performs the proper preflight checks of the instruments, navigation equipment and airplane systems appropriate for an IFR flight.
3. Obtain and readback clearance.
  - Instructor will give the student a departure and route clearance.
    - Observe that the student copies and reads the clearance back accurately and in a timely manner.
    - Observe that the student sets the communications and navigation equipment appropriately based on the clearance received.
4. Fly route as prescribed by clearance and simulated ATC instructions en-route.
  - Coach as necessary.
  - Issues new instruction while en-route, observe that the student correctly copies and reads back the instructions, then complies.
5. Receive, copy and readback simulated ATC arrival and approach procedure.
  - Instructor will give the student clearance for arrival and approach
    - Observe that the student copies and reads back the clearance correctly and in a timely manner.
    - Observe that the student sets radios and navigation equipment appropriately.
    - Observe that the student complies with the clearance.
6. Fly the arrival and approach procedures as cleared.
  - Coach as necessary
7. Post Lesson Debriefing
  - Critique student's performance of tasks with constructive suggestions to improve technique.
  - Answer student questions.
  - Ask student questions to evaluate what was learned.
  - Explain what will be covered in the next lesson and assign reading material.

### Student Actions:

1. Pre-lesson briefing
  - Ask questions concerning previous lessons and/or this one.
2. Preflight airplane.
  - The student performs the proper preflight checks of the instruments, navigation equipment and airplane systems appropriate for an IFR flight.
3. Obtain and readback clearance.
  - The student will copy and readback the departure and route clearance given by the instructor.
  - The student sets the communications and navigation equipment appropriately based on the clearance received.

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4. Fly route as prescribed by clearance and simulated ATC instructions en-route.
  - Student will depart and fly the route in accordance with the clearance received.
5. Receive, copy and readback simulated ATC arrival and approach procedure.
  - The student copies and reads back an arrival and approach clearance given by the instructor clearance correctly and in a timely manner.
  - The student sets radios and navigation equipment appropriately.
6. Fly the arrival and approach procedures as cleared.
  - The student complies with the clearance.
7. Post-flight debriefing.
  - Ask questions about the lesson.

#### Completion Standards:

This lesson will be completed when the student is able to receive, copy and read back ATC arrival procedure and approach procedure clearances accurately in a timely manner, and is able to comply with those clearances.

#### Common Errors:

- Student misses parts of the clearance.
- Student fails to ask for clarification when parts of the clearance are not completely understood.
- Student fails to fly the departure procedure or route as specified in the clearance.

#### References:

- Instrument Flying Handbook (FAA-H-8083-15); Chapters 9 and 10
- INSTRUMENT PTS Area of Operation III Tasks A, B

#### Possible Review Questions:

Give student example clearances and see that he or she copies and reads them back correctly.