

Flight Lesson: Approach Procedure Fundamentals

Objectives:

1. exhibit knowledge of the elements related to Approach Procedures
2. ability to properly interpret and comply with Approach Clearances
3. ability to interpret read non-precision approach plates correctly

Schedule:

Activity	Est. Time
Ground	1
Simulator	2
Debrief	0.25
Total	3.25

Recommended Readings:

IFH	Ch. 8: 8-12 to 8-32: Instrument Approach Procedures
AOPA	http://flash.aopa.org/asf/ifrinsights_charts

Elements Ground:

• Approach Procedure Fundamentals

• purpose

• types

- non-precision
- precision
- visual approaches
 - visual vs contact
- radar approaches
 - ASR vs PAR

• elements

- arrival Segment
- IAF -> initial approach segment
- IF -> intermediate approach segment
- FAF -> final approach segment
- MAP -> missed approach segment

• charting

- NACO vs Jeppesen
- sections
 - margin identification
 - pilot briefing and notes
 - plan view

- MSA, TAA
- profile view
- landing minimums
 - straight in vs circle to land
 - > 30° of rwy, or > 400 fpm desc
- airport diagram
- naming convention
 - rwy in title if 30° alignment
 - letter in title if no straight-in (A,B,...)
 - rev letter in title if multiple straight in (Z,Y,...)
 - R,L,C for parallel runways
 - nav systems in title show required equipment

• Approach Clearances

- clearance authorization vs pilot responsibility
- vectors to final
 - approach gate
- non radar environment (or own nav)
 - starts at IAF

Approach Clearance Examples

“maintain 2,000 until established on the final approach course outbound, cleared VOR/DME runway 12”