

Basic Instrument Flight

20160705

Primary Flight Instruments

- Attitude
 - Attitude Indicator (AI)
- Performance
 - Airspeed Indicator (AS)
 - Altimeter (ALT)
 - Turn Coordinator (TC)
 - Heading Indicator (HI/DG)
 - Vertical Speed Indicator (VSI)
- Instrument Mechanism
 - Vacuum System
 - * Attitude Indicator
 - * Heading Indicator
 - Pitot-Static
 - * Air Speed Indicator (AS)
 - * Altimeter
 - * Vertical Speed Indicator
 - Electric Gyrometer
 - * Turn Coordinator
- Work Cycle
 - ALAP without Lookout, use AI
 - Change, Check, Hold, Adjust, Trim
 - Confirmation
 - * VSI & AI confirm ALT
 - * TC confirms AI
- Instrument Scan

- Full Radial Scan
- T-scan
- Straight & Level AI-DI-AI-ALT
- Climb AI-DI-AI-AS
- Descend AI-DI-AI-VSI
- Turn AI-ALT-AI-TC
- Turning
 - Maximum AoB 30 degrees
 - For Rate 1 turn, $AoB = V / 10 + 7$
- Unusual Attitude Recovery
 - Nose high
 - * Apply power
 - * Roll wings level
 - * Push forward to level
 - * *simultaneously*
 - Nose low
 - * Power idle
 - * Roll wings level
 - * Pull back to level *after power and roll correction*