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#### Part I – Gentle and Medium Turns

- Review Banked Attitudes
- Motivation and Definition
- Initiating, Maintaining and Recovering
  Coordinated Gentle and Medium Level Turns
- Summary and Questions
- Pre-Flight Briefing

### Review Banked Attitudes

- Mentally establish a banked attitude and state all required actions.
- How do we maintain coordinated flight while in a banked attitude?
- What is adverse yaw and how is it caused?

#### Gentle and Medium Level Turns





- Gentle level turns up to 15° bank angle
- Medium level turns 15° up to 30° bank angle
- Heading changes maintaining a constant altitude



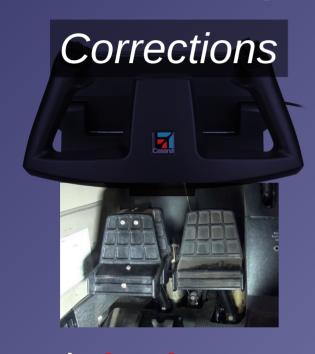
## Initiating a Coordinated Level Turn





- Perform lookout in cruise attitude before initiating a turn
- Establish a banked attitude using the yoke
- Apply rudder as required to remain coordinated
- Center yoke after banked attitude is established

## Maintaining a Coordinated Level Turn





- Apply back-pressure as required to maintain pitch attitude
- Apply corrections as required to maintain bank attitude
- Apply rudder as required to remain coordinated



#### External References





- Continue to lookout and observe references during turn
- Horizon remains the primary attitude reference
- Nose moves steadily around the horizon neither rising or falling
- Landmarks can be used to establish headings

### Recovering a Coordinated Level Turn





- Continue to lookout observing references during recovery
- Turns need to be finished anticipatory half the bank angle
- Establish cruise attitude using the yoke
- Control yaw with rudder as required to remain coordinated
- Adjust cruise attitude and trim

#### Instruments



Airspeed Indicator Turn Coordinator



Heading Indicator

Vertical Speed Indicator





- Turn coordinator and heading indicator indicate turn
- Vertical speed indicator, altimeter and airspeed indicator remain steady
- Attitude indicator confirms outside reference

# Summary / Quiz

- Mentally perform the entry to a medium (30° bank angle) coordinated level turn describing all required actions.
- What controls are to be used to maintain a coordinated level turn and what do they achieve individually?
- Mentally perform the recovery from a medium (30° bank angle) coordinated turn describing all required actions.
- Does the amount of rudder application change depending on the angle of bank during turns?

## Pre-Flight Briefing

- Exercise
- Training Area
- Departure and Arrival Procedures
- Weather Briefing / NOTAMs
- Aircraft and Documents
- Time and Fuel Requirements
- Safety Considerations and Responsibilities