



VICTORIA FLYING CLUB

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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?



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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



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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



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Maintaining a Coordinated Level Turn

Corrections



References

Lookout



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



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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



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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**



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Instruments



Airspeed Indicator



Turn Coordinator

Heading Indicator



Altimeter

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?



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Pre-Flight Briefing

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