

Commercial Pilot Training

SPECIAL EMPHASIS

- Positive Aircraft Control
- Exchange of Flight Controls
- Stall/Spin Awareness
- Collision Avoidance
- Wake Turbulence Avoidance
- LAHSO
- Runway Incursion Avoidance
- CFIT
- ADM
- Checklist Usage

PREFLIGHT PREPARATION

- Certificates and Documents
- Airworthiness Requirements
- Weather Information
 - METAR, TAF and FA
 - Surface Analysis Chart
 - Radar Summary Chart
 - Winds and Temperature Aloft Chart
 - Significant Weather Prognostic Charts
 - Convective Outlook Chart
 - AWOS, ASOS and ATIS reports
- Cross-Country Flight Planning
- National Airspace System
- Performance and Limitations
- Operation of Systems
 - Primary flight controls and trim
 - Flaps, leading edge devices and spoilers
 - Powerplant and Propeller
 - Landing gear
 - Fuel, oil and hydraulic
 - Electrical
 - Avionics
 - Pitot-static, vacuum/pressure and flight instruments
 - Environmental
 - Deicing and anti-icing
- Aeromedical Factors
 - Hypoxia
 - Hyperventilation
 - Middle ear and sinus problems
 - Spatial disorientation
 - Motion sickness
 - Carbon monoxide poisoning
 - Stress and fatigue
 - Dehydration
 - Alcohol, drugs and medications
 - Excess nitrogen/scuba diving

AIRPORT OPERATIONS

- Radio Communications and ATC Light Signals
- Traffic Patterns
- Runway and Taxiway Signs, Markings and Lighting

EMERGENCY OPERATIONS

- Systems and Equipment Malfunctions
 - Partial or complete power loss
 - Engine roughness or overheat
 - Carburetor icing or induction icing
 - Loss of oil pressure
 - Fuel starvation
 - Electrical malfunction
 - Vacuum, pressure and flight instruments
 - Pitot/static
 - Landing gear or flap malfunction
 - Inoperative trim
 - Inadvertent door or window opening
 - Structural icing
 - Smoke/fire/engine compartment
- Emergency Equipment and Survival Gear

HIGH ALTITUDE OPERATIONS

- Supplemental Oxygen

PREFLIGHT PROCEDURES

- Preflight Inspection
- Cockpit Management
- Engine Starting
- Taxiing
- Before Takeoff Check

TAKEOFFS, LANDINGS, AND GO-AROUNDS

- Normal and Crosswind T/O and Climb
- Normal and Crosswind Appch and Lndg.
- Soft-Field Takeoff and Climb
- Soft-Field Approach and Lndg.
- Short-Field Takeoff and Climb
- Short-Field Approach and Lndg.
- Power-Off 180 Accuracy Appch. And Lndg.
- Go-Around and Rejected Landing

PERFORMANCE MANEUVERS

- Steep Turns
- Steep Spiral
- Chandelles
- Lazy Eights

GROUND REFERENCE MANEUVERS

- Eights on Pylons

NAVIGATION

- Pilotage and Dead Reckoning
- Navigation Systems and Radar Services
- Diversion
- Lost Procedures

SLOW FLIGHT AND STALLS

- Maneuvering During Slow Flight
- Power-Off Stalls
- Power-On Stalls
- Spin Awareness

EMERGENCY OPERATIONS

- Emergency Appch and Lndg

POSTFLIGHT PROCEDURES

- After Lndg, Parking and Securing