

APT A145: AIRLINE TRANSPORT PILOT GROUND

Method(s) of Instruction

- Lecture (02)
- DE Live Online Lecture (02S)
- DE Online Lecture (02X)

| Item | Value |
|------------------------------|-----------------------------------|
| Top Code | 302020 - Piloting |
| Units | 3 Total Units |
| Hours | 54 Total Hours (Lecture Hours 54) |
| Total Outside of Class Hours | 0 |
| Course Credit Status | Credit: Degree Applicable (D) |
| Material Fee | No |
| Basic Skills | Not Basic Skills (N) |
| Repeatable | No |
| Grading Policy | Standard Letter (S) |

Course Description

Advanced course which prepares pilots or aircraft dispatchers for the Airline Transport Pilot FAA knowledge test. Course covers those areas of aeronautical knowledge defined under Federal Aviation Regulation Part 61.155 with an emphasis on aircraft loading, weight and balance, use of charts, graphs, tables, formulas and computations, and their effect on aircraft performance. PREREQUISITE: APT A130. ADVISORY: APT A139. Transfer Credit: CSU.

Course Level Student Learning Outcome(s)

1. Explain the operation of turbine aircraft systems.
2. Explain balanced field length and the use of V speeds in turbine aircraft performance planning.
3. Complete the FAA knowledge test for Airline Transport Pilot.

Course Objectives

- 1. Describe high speed aircraft control theory
 - 2. Compute aircraft loading and weight and balance through the use of charts, tables, graphs and formulas and determine the affect on aircraft performance.
 - 3. Describe applicable Federal Aviation Regulations as they apply to airline transport pilot privileges, limitations and flight operations.
 - 4. Explain the effects of frontal weather, icing and upper air data.
 - 5. Explain the general system of NOTAM collection, dissemination, interpretation and use.
 - 6. Interpret weather charts, maps, forecasts, sequence reports, abbreviations and symbols.
 - 7. Explain National Weather Service functions as they pertain to operations in the National Airspace System.
 - 8. Describe wind shear and microburst identification and avoidance.
 - 9. Demonstrate principles of air navigation under instrument flight rules in the National Airspace System.
 - 10. Explain air traffic control procedures and pilot responsibilities as they relate to enroute operations, terminal area and radar operations, and instrument departure and approach procedures.
 - 11. Explain the affects of human factors and physiology, aeronautical decision making and Crew Resource Management in the flight environment.
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