



Course Description

ATT2660 | Regional Airline Operations | 3.00 credits

This course provides theoretical instruction and practical experience in flight planning including navigation, weather, fuel management, flight and communication procedures, aircraft performance, crew coordination and simulator procedures. Utilizing flight systems automated panels, the course additionally provides practical

Course Competencies:

Competency 1: The student will demonstrate the ability to succeed in an airline training program and learn by:

1. Identifying and examining part 135 of the federal aviation regulations (FAR) regulations
2. Providing detailed systems and operating limitations of a nineteen (19) seat passenger turbo propeller aircraft
3. Operating and functioning limitations of the typical autopilot system in the previously described aircraft
4. Operating limitations of a flight director system found in the aircraft previously described

Competency 2: The student will demonstrate commercial pilot knowledge and understanding required to succeed in a regional airline by:

1. Discussing the relationship between part 119 and part 135 and the regulatory procedures involved in acquiring an air carrier certificate
2. Describing the electrical system as found in the Beech 1900 aircraft
3. Explaining the pneumatic system found in the Beech 1900 aircraft (bleed air powered)
4. Breaking down the air conditioning and pressurization system of the Beech 1900 aircraft
5. Distinguishing the powerplants (turbo propellers) found in the Beech 1900 aircraft
6. Discussing the propellers and their associated systems in the Beech 1900 aircraft
7. Summarizing the ice protection systems in the Beech 1900 aircraft
8. Explaining the hydraulic systems found in the Beech 1900 aircraft
9. Pointing out the fire protection and warning systems in the Beech 1900 aircraft
10. Recalling the general operating principles of the autopilot found in the Beech 1900 aircraft
11. Analyzing flight planning, flight planning departments, and the duties of aircraft dispatchers

Competency 3: The student will demonstrate the ability to produce reasoned solutions (courses of action) to various situations using Aeronautical decision-making (ADM) skills by:

1. Recalling specific provisions of part 135 of the federal aviation regulations (FAR) and being able to apply those provisions to particular situations as specified by the instructor
2. Planning and explaining a revenue flight using real-time weather and conforming to the regulatory requirements of part 135 of the federal aviation regulations
3. Analyzing the assembled weather information about the proposed flight route and destination
4. Determining whether alternate takeoff and/ or landing airports are required and, if so, whether the selected alternate airport(s) meet the regulatory requirements of a part 135 operation

Learning Outcomes:

- Formulate strategies to locate, evaluate, and apply information
- Solve problems using critical and creative thinking and scientific reasoning
- Use computer and emerging technologies effectively