

U.S. Department of Labor Employment and Training Administration Office of Apprenticeship Training, Employer and Labor Services (OATELS) Washington, D.C. 20210	<u>Distribution:</u>  National Office All Field Tech SD+RD+SAC+; Lab.Com	<u>Subject:</u> New Apprenticeable Occupation – Air Transport Pilot  <u>Code:</u> 200
Symbols: DSNIP/FG	Action: Immediate	

**PURPOSE:** To inform Office of Apprenticeship Training, Employer and Labor Services (OATELS), Bureau of Apprenticeship and Training (BAT) Staff of a new apprenticeable occupation:

Air Transport Pilot  
 RAIS Code: 1046  
 O\*NET Code: 53-2012.00  
 Training Term: 6780  
 Type of Training: Competency - based

**BACKGROUND:** ATRs Shirley Provance and Frank Goethe in collaboration with AirNet Systems Incorporated of Columbus, Ohio initiated the apprenticeability request for this occupation. The OATELS Administrator approved Air Transport Pilot as an apprenticeable occupation on November 14, 2002.

Prior to enrollment in a registered apprenticeship program under this occupational title, applicants are required to hold the following:

- **Certificates:** Commercial pilot’s license as defined in the Federal Aviation Regulations Part 61, Subpart F.
- **Ratings:** Airplane Single Engine Land, Airplane Multiengine Land (not limited to centerline thrust), Instrument
- **Medical:** Must be issued as a First Class
- **Education:** High School Diploma (college degree preferred)
- **Flight Times:** 500 hours total flight time as a pilot  
                                   100 hours cross-country  
                                   25 night hours

Air Transport Pilot will be added to the list of occupations recognized as apprenticeable by the Office of Apprenticeship Training, Employer and Labor Services when the list is reissued.

**ACTION:** BAT staff should review and retain a copy of this bulletin, including all attachments, as a source for developing apprenticeship standards and/or providing technical assistance.

Attachment

WORK PROCESS SCHEDULE  
**AIR TRANSPORT PILOT**  
O\*NET Code: 53-2012.00 RAIS Code: 1046

**DESCRIPTION:** Pilots airplane to transport passengers, mail, or freight, or for other commercial purposes: Reviews ship's papers to ascertain factors, such as load weight, fuel supply, weather conditions, flight route and schedule. Orders changes in fuel supply, load, route, or schedule to ensure safety of flight. Read gauges to verify that oil, hydraulic fluid, fuel quantities, and cabin pressure are at prescribed levels prior to starting engines. Starts engines and taxis airplane to runway. Sets brakes, and accelerates engines to verify operational readiness of components, such as superchargers, carburetor-heaters, and controls. Contacts control tower by radio to obtain takeoff clearance and instructions. Releases brakes, moves throttles, hand and foot controls to take off and control airplane in flight. Pilots airplane to destination, adhering to flight plan regulations, procedures of federal government, company, and airport. Logs information, such as time in flight, altitude flown, and fuel consumed. Must hold commercial pilot's certificate issued by Federal Aviation Administration. May instruct students or pilots in operation of aircraft.

**Term: Competency-based (6780 hours)**

**On-The-Job-Training Outline:**

**1.1 Second-in-Command (SIC) of Multiengine Aircraft..... 700**

Pilots will be assigned as the second-in-command of a multiengine aircraft until meeting the requirements of FAR 135.243c, which require a pilot to hold the following:

- **Certificates:** Commercial as defined in the Federal Aviation Regulation Part 61, Subpart F.
- **Flight Times:** 1200 hours total flight time as a pilot
  - 500 Cross Country Hours
  - 100 Night Hours
  - 75 Instrument Hours (50 Instrument Hours in an aircraft)

Upon meeting the requirements of FAR 135.243c, a pilot shall undergo initial operating experience training as defined in section 1.2.

**1.2 Initial Operating Experience (IOE)..... 80**

Following the initial aircraft training in the multiengine general purpose category, a pilot must spend 2 weeks flying as the Pilot-in-Command (PIC) in a multiengine aircraft with an instructor to demonstrate proficiency in knowing and understanding the route he/she is assigned. The pilot is graded on the ability to operate the aircraft in "real time" situations. Upon a favorable recommendation from the instructor, the pilot shall continue to fly the route he/she is assigned to without direct supervision. The following is a list of tasks and responsibility the pilot shall be graded on:

- A. General
  - a. Professional Demeanor
  - b. Situational Awareness
  - c. Communication
  - d. Company Profiles / Procedures
  - e. Checklist Usage
  - f. Smoothness

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- B. Preflight Actions
  - a. Preflight
  - b. Flight / Fuel Planning / Weather
  - c. Aircraft Ready on Time
  - d. Final Aircraft Walk Around
- C. Departure
  - a. Starting Engines
  - b. Taxiing
  - c. First Flight Times
  - d. Awareness of Runway Required
  - e. SID's
- D. Enroute
  - a. Fuel Management
  - b. Pressurization Management
  - c. Enroute Navigation
  - d. Decent / Arrival Planning
- E. Arrival
  - a. Awareness of Runway Required
  - b. Approach / Touchdown Speed
  - c. Crosswind Procedures
  - d. Visual Approach
  - e. Use of Nav aids
- F. Company / SOP / AFM Manuals
  - a. Operation / Security of Aircraft
  - b. PIC / SIC Duties (Ops Manual)
  - c. Adherence to Limitations
  - d. Paperwork (Accurate / Legible)
  - e. Aircraft Discrepancies / MEL
- G. CRM
  - a. Communication
  - b. Task Management
  - c. Decision Making
  - d. Team Work

**1.3 PIC of a Multiengine / Turboprop Aircraft .....3000**

- 1.3.1 Piloting a multiengine and/or turboprop aircraft (1500 hours)
- 1.3.2 Pre and post flight aircraft, checking weather forecasts, filing flight plans, and completing associated mission paperwork (1500 hours)

**1.4 SIC Pilot of Transport Aircraft .....3000**

- 1.4.1 Second-in-command pilot of a transport aircraft before upgrading to a pilot-in-command in the transport category (1500 hours)
- 1.4.2 Pre and post flight aircraft, checking weather forecasts, filing flight plans, and completing associated mission paperwork (1500 hours)

**Estimated Completion Hours.....6780**

Related Instruction Outline  
**AIR TRANSPORT PILOT**

O\*NET Code: 53-2012.00 RAIS Code: 1046

1. Pilot-in-Command (PIC)/Second-in-Command (SIC) Multiengine General Purpose Curriculum	
<b>1.1. Initial Aircraft Training</b>	
1.1.1. Basic Indoctrination.....	30.5
1.1.2. Aircraft Ground .....	18.0
1.1.3. General Emergency .....	4.0
1.1.4. Special Segments .....	7.0
1.1.5. Aircraft Flight (including 6 hrs In-House Simulator – Frasca 142).....	12.0
1.1.6. Carriage of Hazardous Materials.....	3.5
1.1.7. Qualification .....	7.5
<b>1.2. Upgrade Training</b>	
1.2.1. Aircraft Ground .....	2.0
1.2.2. Special Segments .....	5.0
1.2.3. Aircraft Flight.....	1.5
1.2.4. Company Ground.....	3.0
1.2.5. Qualification .....	2.5
<b>1.3. Recurrent Aircraft Training</b>	
1.3.1. Aircraft Ground .....	2.0
1.3.2. General Emergency .....	1.0
1.3.3. Special Segments .....	5.0
1.3.4. Aircraft Flight.....	1.5
1.3.5. Carriage of Hazardous Materials.....	1.0
1.3.6. Company Ground.....	3.0
1.3.7. Qualification .....	2.5
<b>Subtotal.....</b>	<b>112.5 hours</b>
<b>2. PIC/SIC Turboprop and SFAR</b>	
<b>2.1. Initial Aircraft Training</b>	
2.1.1. Aircraft Ground .....	14.0
2.1.2. General Emergency .....	4.0
2.1.3. Special Segments .....	7.0
2.1.4. Aircraft Flight.....	6.5
2.1.5. Qualification .....	3.0
<b>2.2. Recurrent Aircraft Training</b>	
2.2.1. Aircraft Ground .....	4.0
2.2.2. General Emergency .....	1.0
2.2.3. Special Segments .....	7.0
2.2.4. Aircraft Flight.....	1.5
2.2.5. Carriage of Hazardous Materials.....	1.0
2.2.6. Company Ground.....	3.0
2.2.7. Qualification .....	2.5
<b>Subtotal.....</b>	<b>54.5</b>

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**3. PIC/SIC Transport Curriculum**

**3.1. Initial Aircraft Training**

3.1.1. Aircraft Ground .....	49.5
3.1.2. General Emergency .....	4.0
3.1.3. Special Segments .....	7.0
3.1.4. Aircraft Flight (1.5 hrs and 12 hrs – In-House Simulator – CAE Simuflite) .....	13.5
3.1.5. Qualification .....	3.0

**3.2. Recurrent Aircraft Training**

3.2.1. Aircraft Ground .....	12.0
3.2.2. General Emergency .....	1.0
3.2.3. Special Segments .....	5.0
3.2.4. Aircraft Flight .....	9.0
3.2.5. Carriage of Hazardous Materials .....	1.0
3.2.6. Company Ground .....	3.0
3.2.7. Qualification .....	3.0

**3.3. Transport Category Upgrade to PIC**

3.3.1. Aircraft Ground .....	12.0
3.3.2. Special Segments .....	5.0
3.3.3. Aircraft Flight .....	9.0
3.3.4. Qualification/Airline Transport Pilot Type Rating .....	3.0

**Subtotal..... 140 hours**

**GRAND TOTAL ..... 307 hours**

Reference Material:

- Company Pilot Training Manual (approved by Federal Aviation Administration)
- Company Manual
- Company Standard Operating Procedure Manual
- Preflight Checklist
- Commercial PTS
- Ohio Approach Plates
- Ohio Enroute Charts
- BE-58 Manual
- FAR AIM

*Each flight simulator training facility has its own training materials reviewed and approved by the director of the company as well as reviewed and approved by the appropriate FAA representatives.*