



B737 NG CBT - AIRCRAFT GENERAL

COURSE OUTLINES

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COURSE START

1-The material contained in this training program is based on the information obtained from current state, local and company regulations and it is to be used for training purposes only. At the time of designing this program contained then current information. In the event of conflict between data provided herein and that in publications issued by the authority, the authority shall take precedence.

AIRPLANE FAMILIARIZATION

2-This chapter introduces you to the airplane. Here is the chapter outline: * Principal dimensions * Flight compartment * Passenger compartment * Lavatories * Water system * Cargo compartments * Forward airstairs

PRINCIPAL DIMENSIONS

3-The overall length of the Boeing 737-800 is 129 feet 6 inches. The height from ground to the top of the vertical stabilizer tip is 41 feet 2 inches. The airplane has a wingspan of 117 feet 5 inches.

4-Wingtips cover the greatest arc while turning. All other components of airplane remains within this arc and are clear of obstruction.

5-The minimum pavement width to carry out a 180 degrees turn is 79.1 feet.

6-You must not attempt to make a turn when there is an obstacle within 17.8 feet of the wing tip or within 24.3 feet of the nose.

FLIGHT COMPARTMENT

7-In the forward flight deck, you find forward overhead panel, aft overhead panel; glareshield panel; left and right forward panels; center forward panel, forward aisle stand, control stand and aft electronic panel.

8-The forward flight deck also incorporates other equipment and furnishings such as nose wheel steering, standby magnetic compass, escape lanyard, map light, chart light, chart and map light controls, speaker, head phone and boom mike, and hand mike.

9-Equipment and furnishings in the aft flight deck includes dome lights, observer seats, observer oxygen mask, coat stowage, fire extinguisher, manual gear release mechanism, 115 volt AC and 28 volt DC outlets and various electric control and circuit breaker panels.

10-Two adjustable and identical seats are provided for the flight crew. The seat base has controls and mechanisms for seat fore and aft position. The upper seat incorporates controls and mechanisms for these adjustments: seat height, thigh pad position, seat recline, armrest height and stowage, back cushion (lumbar support) position and headrest position.

11-To obtain the optimum eye reference position adjust the seat position so that your sight will align along the upper surface of the glareshield with a small amount of the airplane nose structure visible and over the control column in the

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neutral position until the bottom edge of the outboard display unit is visible.

PASSENGER COMPARTMENT

12-Passenger compartment equipment/furnishings provide for the comfort, convenience, and safety of the passengers and cabin attendants.

13-Cabin attendant stations are near the forward and aft entry doors. Each station has accommodations for the attendants and includes a control panel and a handset among other items.

14-Galleys in the passenger compartment provide food and beverage preparation facilities. Galleys are powered with 115 volt AC from the number 1 and 2 transfer buses.

LAVATORIES

15-The lavatories are modular, self-contained units which can be serviced from a single location.

16-Each lavatory is installed with an attendant call switch. A return to seat sign comes on when fasten seat belt signs illuminate.

17-The mirror light and lavatory occupied sign illuminate when the door is closed and latched.

18-Each lavatory has a lavatory water shutoff valve located in the sink cabinet.

19-The valve lets you isolate the flow of water to the lavatory components and has four positions. When you turn the valve to the OFF position, the valve shuts off water to all of the lavatory components. In the SUPPLY ON position, water goes to the faucet and toilet. In the FAUCET ONLY position, water goes to the faucet only. In the TOILET ONLY position, water goes to the toilet only.

20-The forward lavatory incorporates a drain valve which lets you drain the water from the forward lavatory supply lines.

21-A water heater system automatically heats the water supplied to the lavatory hot water faucets. The system is protected against overheating.

22-A power switch is on the side of the heater. The power indicator light illuminates when power is on and extinguishes when power is turned off or in an overheat condition. A temperature selector switch allows for setting the water temperature.

WATER SYSTEM

23-The water system supplies potable water to the lavatories and galleys.

24-The water system uses a single tank located behind the aft cargo compartment. Fresh water is supplied to galleys and lavatory sinks through distribution lines.

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25-The water quantity indicator on the aft attendant control panel indicates quantity of potable water in tank.

26-A water servicing panel is located on the bottom of the aft fuselage. A fill/overflow valve handle lets you fill the water tank. Tank drain valve handle lets water drain overboard from the water tank and the aft water distribution lines.

CARGO COMPARTMENTS

27-The lower cargo compartments provide space to carry luggage and freight. Airplane has forward and aft cargo compartments.

28-The cargo compartments are tightly sealed by a fire resistant liner to completely confine a fire without endangering the safety of the airplane or its occupants. Both cargo compartments are pressurized but do not have fresh air circulation and temperature control as do the upper passenger compartments. Each cargo compartment has a pressure equalization valve. The valve allows air flow into or out of the cargo compartments to keep the cargo compartment pressure nearly the same as the cabin pressure. The blowout panels on the ceilings and bulkheads prevent damage to the airplane structure in case the airplane pressurization is lost.

29-Cargo lights are operated with the switch which is located at the right bottom corner of the Cargo door.

FORWARD AIRSTAIRS

30-In some airplanes as an option, retractable forward airstairs are fitted to allow the boarding and disembarkation of passengers at airports where there are no loading bridges or stairs. The forward airstairs are mounted under the cabin floor just below the forward cabin door and include an integral two-rung handrail on either side for passenger safety. The system is electrically operated and may be controlled from either inside or outside the airplane.

31-The interior control panel is located on the forward attendant panel. Normal EXTEND and RETRACT control switches are used to extend and retract the airstair when AC and DC power is available. The STANDBY Control Switch provides a backup to the NORMAL mode of operation to extend and retract the airstairs. The battery switch must be ON and the standby control switch must be held in until the stairs are fully extended or retracted. White STAIR OPER light on the panel illuminates when the airstair is in transit. The airstair tread lights on the airstair steps are controlled by a single three-position airstair Tread LIGHTS switch. With the switch in the AUTO position, the tread lights illuminate when the airstair is fully extended and extinguish when the airstair retracts. ON position illuminates airstair tread lights.

32-The exterior control is located to the right and below the airstair compartment. Operating instructions are located near the switches.

33-The panel incorporates an AIRSTAIRS Control Switch which is used to extend and retract the airstair. A power switch is spring-loaded to normal position. With the switch in normal position, the normal AC and DC systems operate the airstairs. When Standby position is selected, airstairs operate from DC standby system.

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34-End of course. ?