

CST CABIN SERVICE TRAINER

Application

CST mock-up is used to train flight attendants in ensuring the safety and comfort of passengers while boarding, flying and leaving the aircraft, as well as emergency training (except for emergency evacuation, main door and emergency exits handling). Most CST mock-ups have customized design, depending on their location, training program, and a/c type.



Normally, CST mock-up is divided into the following sections:

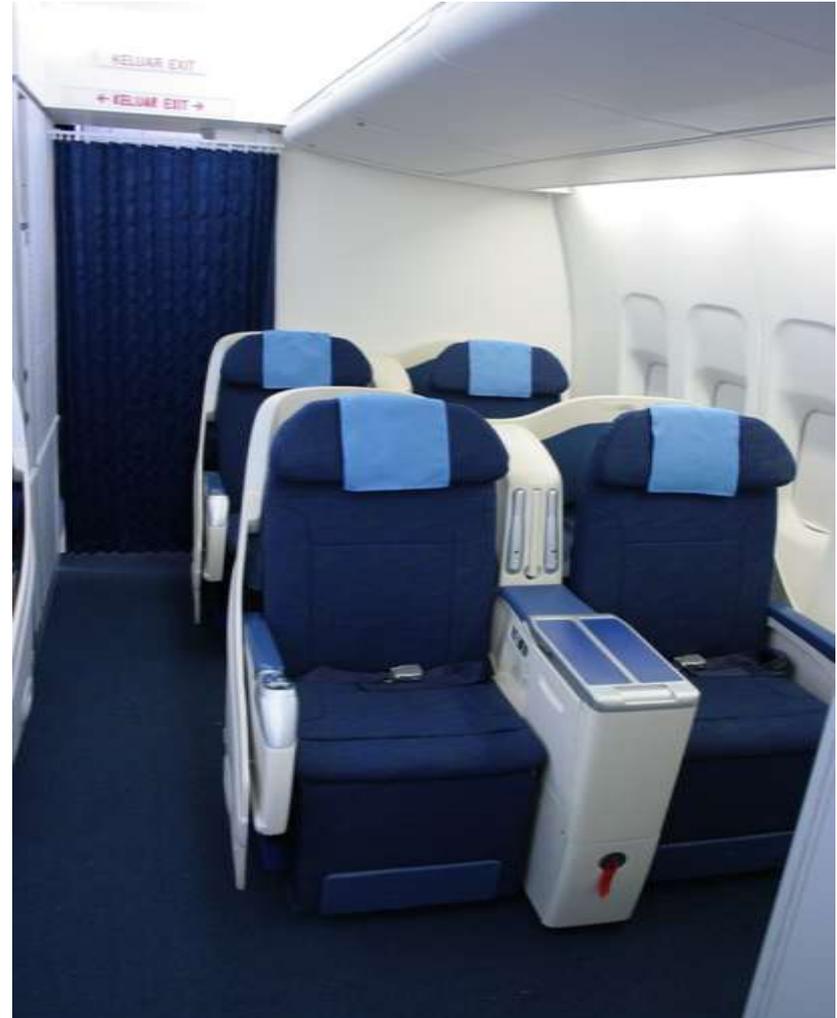
Service compartments

- Galley
 - Galley blocks with functional equipment
 - Convection oven, heaters, coffee-makers
 - Trash compactor, service carts
 - Functional control panels
 - Water supply system
- Lavatory
 - 3D simulation of interior elements
 - Fire alarm
 - Functional hygienic accessories
- Area for flight attendants
 - Flight attendant seats equipped with
 - Safety belts
 - Life saving equipment
 - Simulated demonstration equipment
 - Oxygen masks
 - FAP (flight attendant panel)
 - Attendant call button (passenger, pilot, f/attendant)
 - Intercom and passenger address system
- Storages, wardrobes
- Cabin emergency signage
- Service curtains
- Reading lights
- Interior panels
- Door simulation
- IOS area (Instructor Operator Station)



Cabins may be divided into several parts:

- **F/C – First Class**
- **B/C – Business Class**
- **E/C – Economy Class**
- They are equipped with the following standard units:
 - Cabin interior
 - Paneling
 - Lighting
 - PCU (Passenger Control Unit)
 - Oxygen system (simulation with opening function)
 - Carpeting (industrial)
 - Floor emergency lighting
 - Exit lights
 - Passenger seats
 - Fully functional
 - 3D simulation
 - Wardrobes
 - Overhead stowage bins
 - Emergency equipment(depending on a/c type)
 - Monitors for training
 - Bassinets
 - Magazine holders
 - Mini-bars
 - Functional window shades
 - Audio system
 - Video recording system
 - Fire alarm
 - Fire extinguishers



F/C – First Class

We take our most responsible care of the CST equipment in F/C cabin.

Our special attention is paid to the elements that simulate control functions of PCU (passenger control unit), seats, tables and ottomans' mechanisms.

- Electrical seat with full berthing recline, massage and reading light



Together with the ottoman and credenza, the seat is a newly designed product. It differs essentially from the original one :

- Reinforced frame with increased stiffness (no weight requirements)
- Reinforced decorated plastic
- Easy-to-change seat cover
- Reinforced table in the arm-rest and monitor mechanism
- Electronics is adapted for commercial power supply, and controlled from IOS

The seat belts correspond the original ones (a seat cover set as a spare part).

Current protection when G-effect during seat manipulation (safe handling).

B/C – Business Class

This seat features complicated transforming mechanism and huge number of elements; requires special treatment to the materials and electronics. We have paid special attention to seat performance and serviceability. This very type of seat can be produced in two versions – two- and three-seated.

- Electrical seat with full berthing recline, massage and reading light



The seat is a newly designed product. It differs essentially from the original one:

- Reinforced frame with increased stiffness (no weight requirements)
- Reinforced decorated plastic
- Easy-to-change seat cover
- Reinforced table in the arm-rest and monitor mechanism
- Electronics is adapted for commercial power supply, and controlled from IOS

The seat belts correspond the original ones (a seat cover set as a spare part).

Current protection when G-effect during seat manipulation (safe handling).

E/C – Economy Class

Normally, we apply standard aviation seats, after upgrading some mechanisms and parts to improve their operational parameters; the seat covers are made of company corporate design fabric.

- Mechanical seat with a folding back-rest and table, 3D simulation of entertaining equipment.



The seat belts correspond the original ones (a seat cover set as a spare part).

Galley Equipment

Galleys are produced as a total copy of a real one in the a/c. The galley body is made of moisture-resistant materials with a frame. Handles, latches, and clamping mechanisms correspond the ones in the real a/c. The galley equipment is procured in accordance with the specification and corresponds to the one used for training. The equipment power supply is arranged via 115V, 400Hz converter.



Flight Attendant Area

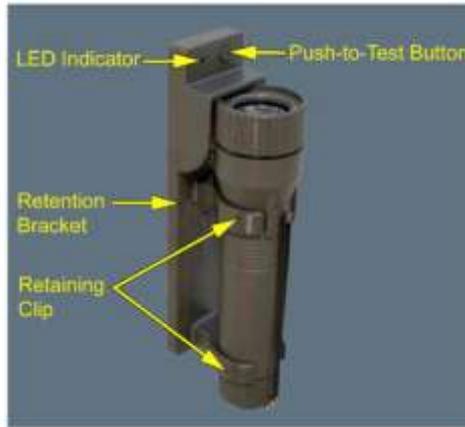
Flight attendant equipment includes all the elements available on a real a/c

- E.g. for A380 but not excluding the other components:

1. Public address handset



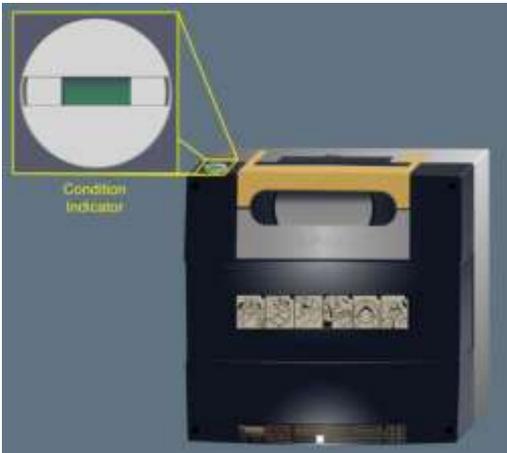
2. F/attendant flashlight



3. Emergency locator transmitter



4. Smoke mask container



5. Fire extinguisher



6. Defibrillator



Instructor Operator Station (IOS)

Normally, there is an IOS able to control all system functions in the mock-up.

The IOS is located in a separate ventilated and conditioned room; it is equipped with an observation monitor, a central control console, recording equipment and PA system. The instructor is able to control the training process manually or with a set scenario. The system software is developed with regard to specified tasks and a/c type.

Auxiliary Mock-up Systems

The systems to ensure the mock-up operation are as follows:

- Conditioning
- Fire alarm
- Power supply system(including UPS for electronic devices)
- Restricted excess system

Mock-up Assembly

The mock-up preassembly and acceptance is executed on the contractor's premises; the final installation and delivery of work - on the customer's premises.

