Cessna Citation CJ2 Full Flight Simulator

JAR STD Level C, D

The CJ2 Full-Flight Simulator (FFS) is built to and certified in accordance with Joint Aviation Authorities standards.

It features a 6-Degree-of-Freedom (DOF) electrical motion platform providing full motion cuing and a collimated visual system capable of producing daylight/twilight/night scenes in 180-degree horizontal and 40-degree vertical field of view. The sophisticated electric Control Loading System (CLS) recognizes and reproduces controls dynamics, control forces, and displacement characteristics that correspond to those of the actual airplane.

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Simulation & Training Systems

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JAR STD Level C, D

The CJ2 Full-Flight Simulator enables high fidelity training of flight maneuvers for initial, recurrent, and aircraft specific (rating) training, and normal, abnormal, and emergency procedures.

A stand-alone Instructor Operating Station (IOS) enables the instructor to control all relevant systems and flight conditions. It also provides control and input to produce normal, abnormal, and emergency conditions for realistic flight and systems training. The IOS also provides a wide range of environmental phenomena, including wind shear and icing, effecting both the airframe and engines. The design and features of the IOS provides the opportunity for introducing and conducting modern scenario-based training.

The simulator contains a self-diagnostics software module that ensures correct functioning of the simulator hardware and software.
Any malfunctions are shown on the IOS. Also built into the simulator is a special software tool producing a complete Quality Test Guide (QTG) document as required by the JAR 1.A STD.

MAIN FEATURES:

- Original Cessna CJ2 cockpit
- Collins Pro Line 21 Avionics
- 6 DOF Electric Motion Platform
- Electric Control Loading System
- Collimated Visual System
- Instructor Operating Station with Graphical User Interface
- All-weather simulation
- Actual aircraft noise and communication inputs
- High definition world terrain data base, and detailed models of selected airports

TRAINING CAPABILITIES:

Normal procedures:

- Cockpit preparation
- Engines starting procedures
- Take off procedures
- Climbing and cruise
- Descent
- Landing procedures

Abnormal and Emergency Procedures:

- Full failures package

Familiarization with the aircraft systems:

- Autopilot system
- Electrical system
- Engines and related indicators
- Fire detection and protection
- Flight instruments
- Flight management system
- Fuel system
- Landing gear and brake system
- Pressurizing system
- Radios and communication systems

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