

Civil Aerospace Training and Simulation Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Simulator Type (Full Flight Simulator (FFS), Flight Training Devices (FTD), and Other Training Devices), By Application (Commercial Aviation and Space), By Regional, By Competition Forecast & Opportunities, 2021-2031F

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Abstracts

The Global Civil Aerospace Training and Simulation Market will grow from USD 16.34 Billion in 2025 to USD 22.69 Billion by 2031 at a 5.62% CAGR. The Global Civil Aerospace Training and Simulation Market involves the provision of synthetic learning devices, including full flight simulators, alongside structured instruction to qualify pilots and maintenance staff for commercial operations.

Key Market Drivers

The acute shortage of qualified pilots and aviation personnel acts as a primary catalyst for the Global Civil Aerospace Training and Simulation Market. As airlines aggressively ramp up operations to meet post-pandemic travel demands, the widening gap between workforce supply and operational requirements has necessitated a substantial increase in training throughput. This scarcity is compounded by mandatory retirements and stricter competency-based training standards, forcing operators to invest heavily in cadet programs and advanced simulation hours to expedite certification without compromising safety.

Key Market Challenges

The substantial capital expenditure required for procuring and certifying advanced simulation hardware constitutes a formidable barrier to the growth of the Global Civil Aerospace Training and Simulation Market. Full flight simulators and other synthetic learning devices require immense upfront investment due to their intricate engineering and the rigorous compliance standards mandated by aviation authorities. This heavy financial burden disproportionately affects smaller independent training centers and regional airlines, effectively preventing them from upgrading their infrastructure or expanding their training capacity.

Key Market Trends

The Widespread Integration of Extended Reality (XR) is reshaping instructional delivery by supplementing traditional hardware with portable virtual environments. Training centers are deploying Virtual Reality (VR) systems to offload procedural tasks from expensive Full Flight Simulators, allowing pilots to practice cockpit flows in a self-paced setting. This reduces the operational load on heavy training devices while enhancing muscle memory through repetitive, unmonitored practice.

Key Market Players

L3Harris Technologies Inc.

CAE Inc.

The Boeing Company

FlightSafety International Inc.

Raytheon Technologies Corporation

Indra Sistemas SA

ALSIM EMEA

ELITE Simulation Solutions AG

Multi Pilot Simulations BV

Lockheed Martin Corporation

Report Scope:

In this report, the Global Civil Aerospace Training and Simulation Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Civil Aerospace Training and Simulation Market, By Simulator Type:

Full Flight Simulator (FFS)

Flight Training Devices (FTD)

Other Training Devices

Civil Aerospace Training and Simulation Market, By Application:

Commercial Aviation and Space

Civil Aerospace Training and Simulation Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Civil Aerospace Training and Simulation Market.

Available Customizations:

Global Civil Aerospace Training and Simulation Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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