

Boeing Forecasts 20-Year Global Demand for Nearly 2.4 Million New Commercial Pilots, Technicians, Cabin Crew

- Continued industry focus on innovative training and career development is key to addressing pilot and technician shortages
- Advancements in AI, virtual and mixed reality technologies will enhance and augment training to transform aviation workforce preparedness

OSHKOSH, Wis., July 22, 2025 — Fueled by emerging markets and changes in fleet mix, Boeing [NYSE: BA] projects continued demand for aviation personnel as the global commercial fleet changes to meet the demands of the flying public. Boeing’s [2025 Pilot and Technician Outlook](#) (PTO) anticipates the industry will require nearly 2.4 million new aviation professionals through 2044 to meet the long-term increase in air travel.

Boeing, which released its annual 20-year forecast at EAA AirVenture Oshkosh, said commercial carriers will need substantial hiring and training to sustain the global commercial fleet, including:

- 660,000 pilots
- 710,000 maintenance technicians
- 1,000,000 cabin crew members

“As commercial air traffic demand continues to outpace economic growth and the global fleet expands to meet demand, our industry will keep the fleet flying safely and efficiently by supporting workforce development for carriers worldwide,” said Chris Broom, vice president, Commercial Training Solutions, Boeing Global Services. “The industry is investing in technologies, including mixed reality— an immersive blend of physical and digital environments that enhances hands-on learning and situational awareness. Boeing is supporting customers with digitally advanced aviation training products and services to meet their needs. The bedrock of our approach remains competency-based training and assessment methodology to ensure high quality aviation training.”

In the PTO, Boeing projects through 2044:

- Two-thirds of new personnel will address replacement due to attrition, while one- third supports growth in the commercial fleet
- Demand for new personnel is driven primarily by single-aisle airplanes
- As in past years, Eurasia, China and North America continue to drive demand for more than half of new industry personnel
- South Asia and Southeast Asia are the fastest-growing regions for personnel with staffing demand expected to more than triple

The PTO includes these projections for industry needs through 2044:

Region	New Pilots	New Technicians	New Cabin Crew	Total New Personnel
Global	660,000	710,000	1,000,000	2,370,000
Africa	23,000	24,000	27,000	74,000
China	124,000	131,000	171,000	426,000
Eurasia	149,000	165,000	236,000	550,000
Latin America	37,000	42,000	55,000	134,000
Middle East	67,000	63,000	104,000	234,000
North America	119,000	123,000	193,000	435,000
Northeast Asia	23,000	27,000	42,000	92,000
Oceania	11,000	12,000	18,000	41,000

South Asia	45,000	45,000	51,000	141,000
Southeast Asia	62,000	78,000	103,000	243,000

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Contact

Boeing Media Relations

media@boeing.com
