



Training

# 2015 Pilot & Technician Outlook

BOEING **EDGE**  
Flight Services



## Training

# Pilot & Technician Outlook

As global economies expand and airlines take delivery of tens of thousands of new commercial jetliners over the next 20 years, there is and will continue to be unprecedented demand for personnel to fly and maintain those airplanes.

In support of this tremendous growth, the aviation industry will need to supply more than one million new commercial airline pilots and maintenance technicians between now and 2034.

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The 2015 Boeing Pilot & Technician Outlook, a respected industry forecast of personnel demand, projects that 558,000 new commercial airline pilots and 609,000 new maintenance technicians will be needed to fly and maintain the world fleet over the next 20 years.

Meeting this exponential demand will require innovative solutions—focused on new, digital technology—to match the learning requirements of a new generation. The growing diversity of aviation personnel will also require instructors to have cross-cultural and cross-generational skills to engage tomorrow's workforce. Training providers will focus more on enabling airplane operators to gain optimal advantage of the advanced features of the latest generation of airplanes, such as the 787 Dreamliner, 737 MAX, and the 777X.

Although Asia Pacific remains the region with the highest overall demand—40 percent of the world's required pilots and technicians—there has been a significant increase in the expected number of skilled resources required in other parts of the world, such as the Middle East and Latin American markets.





## Training

### 2015 Pilot Outlook

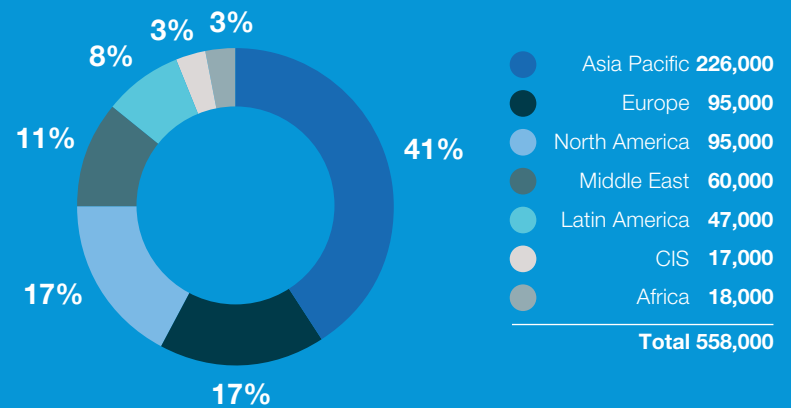
Airlines across the globe are expanding their fleets and flight schedules to meet the global economic expansion. The aviation industry continues to work on addressing these challenges and creating a balanced, sustainable solution to filling the future pilot and technician pipeline.

Regional markets that have relied heavily on recruiting pilots from outside their home locations will increasingly need

a strong foundation for developing and training qualified pilots locally.

Over the next 20 years, the largest projected growth in pilot demand is in the Asia Pacific region, with a requirement for 226,000 new pilots. Europe will require 95,000; North America, 95,000; the Middle East, 60,000; Latin America, 47,000; the Commonwealth of Independent States (CIS), 17,000; and Africa, 18,000.

New Pilots by Region 2015–2034



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## 2015 Technician Outlook

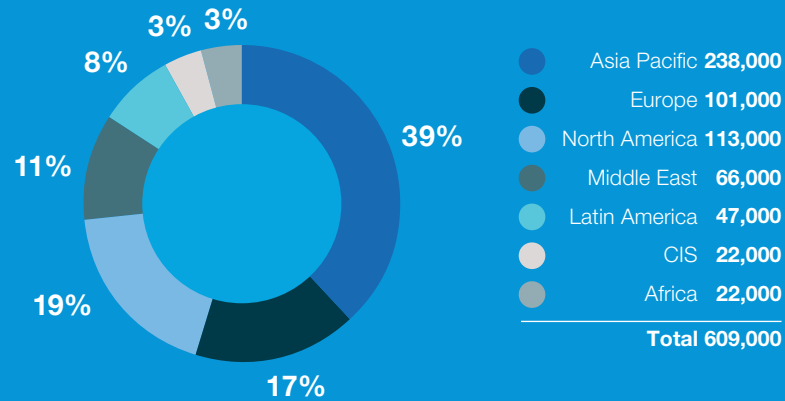
As newer-generation airplanes become more prevalent in worldwide aviation fleets over the next 20 years, airplane reliability will improve, and maintenance check intervals will lengthen. Although this trend will moderate demand growth somewhat, the global need for technicians will remain strong.

The overall global fleet growth—along with an increasing trend in outsourcing maintenance, repair, and overhaul activities to third-party providers in emerging

markets—will drive an increased overall need for qualified technicians sourced from an expanded number of locations.

The need for maintenance personnel is largest in the Asia Pacific region, which will require 238,000 new technical personnel. Airlines in Europe will require 101,000; North America, 113,000; the Middle East, 66,000; Latin America, 47,000; the CIS, 22,000; and Africa, 22,000.

New Technicians by Region 2015–2034





# The Boeing Edge

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## Flight Services

### **Training**

- Flight Training
- Cabin Safety Training
- Maintenance Training
- Pilot Provisioning
- Global Training Network and Campuses

### **Simulator Services**

- Simulator Software Modeling and Hardware Modifications
- Training Center Management

### **Navigation**

- Tailored Chart and Document Services
- Aviation Data Services

### **Optimization Services**

- Flight Planning
- Crew Scheduling
- International Trip Planning
- Weather

### **Flight Operations**

- Flight Documents
- Airplane Performance Tools
- Airport Technology
- Performance Engineer Training
- Technical Support

### **Air Traffic Management**

- Advanced Air Traffic Management
- Performance-Based Navigation
- Optimization

### **Boeing Commercial Airplanes**

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