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Air traffic controllers can make six figures, but they train hard to get there. Learn how to become an air traffic controller in our step-by-step guide. Many air traffic controllers have an associate degree in air traffic management. The federal government hires air traffic trainees during a short window each year. After landing a job, trainees complete months of special academy training. New controllers continue training on the job to gain certification within three years. On any given day, the Federal Aviation Administration (FAA) handles over 45,000 flights, carrying more than 2.9 million passengers. While pilots do the flying, air traffic controllers, also called air traffic control specialists, guide and instruct pilots. They watch out for weather and traffic congestion and reroute planes if necessary. This article lists the steps to becoming an air traffic controller and answers questions about the job. The path to becoming an air traffic controller is unique and takes several levels of training. Here's where to get started. Earn a GED or High School Diploma: Most air traffic control degree programs and the armed services require you to have a high school or GED diploma to enroll or enlist. Complete Pre-Employment Education and Experience Requirements: In addition to meeting certain medical and age requirements, you must complete pre-training. The FAA provides different ways to complete your pre-training. You may: Work for at least three years in progressively responsible roles Earn a four-year degree Combine education and work experience for a total of three years (E.g., Complete a two-year degree and military service) The above are minimum requirements. To strengthen your application, consider completing a degree at an Air Traffic Collegiate Training Initiative (AT-CTI) school. These programs teach students air traffic management and other aviation subjects. They are located at several colleges throughout the country. Graduates may receive a letter of recommendation to help them land a job. You can also gain air traffic control experience in the military. Veterans may earn credits toward an air traffic degree. Apply for a Job During a Hiring Window: Apply for an air traffic controller job through USAJOBS. Air traffic controller jobs typically accept applicants for just a few days, so it's a good idea to sign up for USAJOBS alerts. Attend the FAA Academy: The FAA academy trains air traffic controllers through classroom learning and simulator training. Trainees may complete coursework in 2-5 months. It is located in Oklahoma City. In the podcast, academy director John Doskow said the students with higher course scores may get to choose their site assignment first, whereas students with lower scores choose last. How that works is incentive to study. Work on Assignment as a Developmental Controller: Some of the apprentices, developmental controllers work under supervision while training for another 1-5-3 years. Become Certified: After completing all of the necessary training components to work in a tower or radar facility, you can become an FAA-certified professional controller (CPC). Air traffic controllers monitor flight paths. They give pilots instructions and information about weather and other air traffic from pre-departure to arrival. Air traffic controllers prioritize safety. They guide pilots to make sure they avoid collisions and dangerous weather. These professionals also try to prevent congestion around airports. They help pilots and passengers take off and arrive on time. Air traffic controller jobs require communication, concentration, and constant troubleshooting. They practice organization and attentiveness, frequently monitoring several flights at once. Even under great stress, these pros must make fast, effective decisions. On any given shift, an air traffic controller may be responsible for: Instructing pilots during takeoff and landing Directing other airport workers, including baggage and maintenance personnel Handing off flight paths to colleagues stationed throughout the country Warning pilots about weather conditions, runway closures, and other issues Detecting and reporting emergencies during a flight Air traffic controllers have different roles, categorized generally by how close to an airport they work. Types of air traffic controllers include: Tower Controllers or Operators: These professionals work in towers at the airport. They oversee the runways and air traffic within about 30 miles of an airport. Approach and Departure or Radar Approach Controllers: Further out, about 20-50 miles from the airport, these controllers guide pilots approaching and departing from the vicinity. They hand off traffic between tower and en route control specialists. En Route Controllers: These professionals work throughout the country to monitor flights far away from any airport. Sometimes, there may be other roles, such as control specialists who work between tower and radar approach controllers or supervisors who oversee employees at a tower. In addition to completing education or work experience, aspiring air traffic controllers must meet certain requirements before the FAA accepts them as job candidates and academy students. To meet the FAA's requirements to become an air traffic controller, you must: Be a U.S. citizen Be 30 years old or younger Pass a medical examination and continue to pass it annually once you're hired Pass a security investigation Pass the FAA's pre-employment test Speak English clearly so colleagues using communications equipment can understand you Be up for relocating to any facility the FAA may need to staff Work for three years in progressively responsible roles, obtain a bachelor's degree, or have some combination of work and postsecondary education equaling three years Once you complete your academy training, you will be assigned to work at a tower or radar facility somewhere in the country. There, you will continue training, which the FAA monitors closely. After completing all of the necessary training components to work in a tower or a radar facility, you qualify to become a CPC. The FAA expects trainees to complete all necessary training in 1-5-3 years. The median annual wage for air traffic controllers in 2021 was \$129,750, according to the BLS. Your exact salary as an air traffic controller may depend on your experience, where in the country you work, and the complexity of the air traffic you manage. Air traffic controllers also may receive federal benefits, including insurance and retirement plans. Even though more people are flying these days, new satellite-based technology may enable control specialists to cover more traffic, lowering the demand for these jobs. The BLS projects that employment for air traffic controllers will grow 4% from 2020 to 2030. That's just half the projected growth rate for all applications, which is around 8%. Throughout your career, you may continue training in different types of air traffic management for example, tower versus en-route control to expand your experience and move to new cities. The law requires air traffic controllers to retire at age 56, and some may retire earlier than that. Some retired air traffic controllers become instructors or work as supervisors. State Average Air Traffic Controller Salary (May 2020) Virginia \$152,450 New Hampshire \$150,490 Illinois \$145,470 Georgia \$144,840 California \$141,200 It may take 4.5-7.5 years to become an air traffic controller. You must spend 3-4 years completing pre-employment qualifications. Then, if you land a job right away, you need to spend 2-4 months in FAA training and then another 1-5-3 years in on-the-job training before the FAA certifies you. According to data from the National Center for Education Statistics, most air traffic control and aviation management degree programs cost between \$7,000 and \$20,000 a year. These include two- and four-year degree programs. Once you're hired, you do not pay for the required training at the FAA Academy. The Academy will pay for or reimburse your lodging and meal expenses up to a certain amount while you're enrolled in courses. Specialized agency of the United Nations Not to be confused with the International Air Transport Association, "Civil Aviation Organization" redirects here. For the Civil Aviation Organization of Iran, see Civil Aviation Organization (Iran). International Civil Aviation Organization [1] ICAO's headquarters in Montreal Abbreviation ICAO Formation 4 April 1947; 78 years ago (1947-04-04) Type United Nations specialised agency Legal status Active Headquarters Montreal, Quebec, Canada Official language Arabic Chinese English French Russian Spanish Secretary General Juan Carlos Salazar Gomez [2] Council President Salvatore Sciacchitano Main organ Triennial Assembly ICAO Council Secretariat Website cao.int Politics portal The International Civil Aviation Organization (ICAO) /akeo/ eye-KAY-oh/ is a specialized agency of the United Nations that coordinates the principles and techniques of international air navigation, and fosters the planning and development of international air transport to ensure safe and orderly growth. [3] The ICAO headquarters are located in the Quartier International de Montréal of Montreal, Quebec, Canada. The ICAO Council adopts standards and recommended practices concerning air navigation, its infrastructure, flight inspection, prevention of unlawful interference, and facilitation of border-crossing procedures for international civil aviation. ICAO defines the protocols for air accident investigation that are followed by transport safety authorities in countries signatory to the Convention on International Civil Aviation. [4] The Air Navigation Commission (ANC) is the technical body within ICAO. The commission is composed of 19 commissioners, nominated by the ICAO's contracting states and appointed by the ICAO Council. [5] Commissioners serve as independent experts, who although nominated by their states, do not serve as state or political representatives. International Standards and Recommended Practices are developed under the direction of the ANC through the formal process of ICAO Panels. Once approved by the commission, standards are sent to the council, the political body of ICAO, for consultation and coordination with the member states before final adoption. ICAO is distinct from other international air transport organizations, particularly because it alone is vested with international authority (among signatory states): other organizations include the International Air Transport Association (IATA), a trade association representing airlines; the Civil Air Navigation Services Organisation (CANSO), an organization for air navigation service providers (ANSPs); and the Airports Council International, a trade association of airport authorities. In addition there are several regional civil aviation commissions, such as the Latin America Civil Aviation Commission (LACAC) who focus on challenges and growth in specific regions. In the early 20th Century, the International Telecommunication Union met to discuss and implement one of the first international agreed upon standards relating to aviation, country-specific prefixes for aircraft callsigns. The first convention was held in 1903 in Berlin, Germany, but no agreements were reached among the eight countries that attended. At the second convention in 1906, also held in Berlin, twenty-seven countries attended. [6] The third convention, held in London in 1912, allocated the first radio callsigns for use by aircraft. Following this, at the Paris Convention of 1919, a forerunner to ICAO named ICAN was established, the International Commission for Air Navigation. ICAN continued to operate until 1945. [7] [8] The Convention on International Civil Aviation, also known as the Chicago Convention, in Chicago, was signed by 52 countries on 7 December 1944. Under its terms, a Provisional International Civil Aviation Organization was to be established, to be replaced in turn by a permanent organization when twenty-six countries ratified the convention. PICAO began operating on 6 June 1945, replacing ICAN. The 26th country to ratify the convention on 5 March 1947 and consequently, PICAO was disestablished on 4 April 1947 and replaced by ICAO, which began operations the same day. [citation needed] In October 1947, ICAO became an agency of the United Nations under its Economic and Social Council (ECOSOC) [7] [9] In April 2013, Qatar offered to serve as the new permanent seat of the Organization. Qatar promised to construct a massive new headquarters for ICAO and to cover all moving expenses, stating that Montreal "was too far from Europe and Asia", "had cold winters", was hard to attend due to the Canadian government's slow issuance of visas, and that the taxes imposed on ICAO by Canada were too high. [10] According to The Globe and Mail, Qatar's invitation was at least partly motivated by the pro-Israel foreign policy of Canadian Prime Minister Stephen Harper. [11] [12] Approximately a month later, Qatar withdrew its bid after a separate proposal to the ICAO's governing council to move the ICAO triennial conference to Doha was defeated by a vote of 2214. [13] [14] [15] In January 2020, ICAO blocked several Twitter users, including think-tank analysts, U.S. Congressional staff, and journalists, who mentioned Taiwan in tweets related to ICAO. Many of the tweets were related to the COVID-19 pandemic and Taiwan's exclusion from ICAO safety and health bulletins due to pressure from China. In response, ICAO issued a tweet stating that publishers of "irrelevant, compromising and offensive material" would be "precluded". [16] [17] [18] Since that action, the organization has followed a policy of blocking anyone asking about it. [19] [20] The United States House Committee on Foreign Affairs harshly criticized ICAO's perceived failure to uphold principles of fairness, inclusion, and transparency by silencing non-disruptive opposing voices. Senator Marco Rubio also criticized the move. [21] The Taiwanese Ministry of Foreign Affairs (MOFA) and legislators criticized the move, with MOFA head Jaushieh Joseph Wu tweeting in support of those blocked. In January 2020, Anthony Philbin, Chief of Communications for the ICAO Secretary General, defended ICAO's actions, stating, "We felt completely justified in taking steps to protect the integrity of the information and discussions that our followers reasonably expect from our feeds". In exchanges with "The International Flight Network", Philbin refused to acknowledge the existence of Taiwan. [22] [23] On 1 February 2020, the United States Department of State issued a press release heavily criticizing ICAO's actions, characterizing them as "outrageous, unacceptable, and not befitting of a UN organization". [23] [24] On May 2, 2025, the ICAO Council expressed grave concern over ongoing Global Navigation Satellite System (GNSS) radio frequency interference in the Incheon Flight Information Region (FIR), incidents that have persisted since October 2, 2024, and are attributed to North Korea, officially known as the Democratic People's Republic of Korea (DPRK). The Council emphasized that such interference endangers international air navigation safety and violates the principles of the Chicago Convention. It strongly urged the DPRK to adhere to its international obligations and prevent future occurrences. Given the severity of the situation, the Council is considering reporting the matter to the 42nd Session of the ICAO Assembly in September 2025, as per Article 54(k) of the Convention, and will continue to monitor developments closely. [25] The 9th edition of the Convention on International Civil Aviation includes modifications from years 1948 up to 2006. ICAO refers to its current edition of the convention as the Statute and designates it as ICAO Document 7309/9. The convention has 19 Annexes that are listed by title in the article Convention on International Civil Aviation. [26] International Civil Aviation Organization member states As of April 2019 [update], there are 193 ICAO members, consisting of 192 of the 193 UN members (all but Liechtenstein, which lacks an international airport), plus the Cook Islands. [27] [28] Despite Liechtenstein not being a direct party to ICAO, its government delegated Switzerland to enter into the treaty on its behalf in 1947, and the treaty is applicable in the territory of Liechtenstein. [29] The Republic of China was a founding member of ICAO. Following its retreat to Taiwan, it was eventually replaced by the People's Republic of China as the legal representative of China in 1971. In 2013, Taiwan was for the first time invited to attend the ICAO Assembly, at its 38th session, as a guest under the name of "Chinese Taipei". As of September 2019 [update], it has not been invited to participate again, due to renewed PRC pressure. [30] [31] [32] [33] The host government, Canada, supports Taiwan's inclusion in ICAO. Support also comes from Canada's commercial ties with the president of the United States Department of Canada saying in 2019 that "It's about safety in aviation so from a strictly operational and non-political point of view, I believe Taiwan should be there." [34] The ICAO's council chamber in July 2013 The ICAO Council is elected by the Assembly every three years and consists of 36 members elected in three groups. The present council was elected in October 2022. [35] The structure of the present Council is as follows: Group I (Chief Information) Group II (Large Contributions) Group III (Geographic Representations) Australia Brazil Canada China France Germany Italy Japan United Kingdom United States Argentina Austria Egypt Iceland India Mexico Nigeria Saudi Arabia Singapore South Africa Spain Venezuela Bolivia Chile El Salvador Equatorial Guinea Ethiopia Ghana Jamaica Malaysia Mauritania Qatar South Korea Romania United Arab Emirates Zimbabwe Meeting room of ICAO's Air Navigation Commission in July 2013 The Air Navigation Commission (ANC) is the ICAO Council technical executive body in charge of 17 of the 19 Annexes to the Chicago Convention. ANC develops and recommend ICAO minimal standards that are related to these Annexes. To review and/or finalize the ongoing developments the commission meets for three sessions per year. Each session normally considers a number of documents being developments of ANC expert Panels. The ANC is composed of nineteen commissioners nominated by ICAO States in various aviation domains. However, legally these commissioners do not represent the interest of their State or any particular State or region. They have to conduct independently in the interest of the entire international civil aviation community. Additionally, several other representatives from ICAO States and up to eight members from the civil aviation industry may be invited to take part in ANC meetings as observers. [36] [37] Further information: Standards And Recommended Practices ICAO also standardizes certain functions for use in the airline industry, such as the Aeronautical Message Handling System (AHS). This makes it a standards organization. Each country should have an accessible Aeronautical Information Publication (AIP), based on standards defined by ICAO, containing information essential to air navigation. Countries are required to update their AIP manuals every 28 days and so provide definitive regulations, procedures and information for each country about airspace and airports. ICAO's standards also dictate that temporary hazards to aircraft must be regularly published using NOTAMS. ICAO defines an International Standard Atmosphere (also known as ICAO Standard Atmosphere), a model of the standard variation of pressure, temperature, density, and viscosity with altitude in the Earth's atmosphere. This is useful in calibrating instruments and designing aircraft. [38] The standardized pressure is also used in calibrating instruments in-flight, particularly above the transition altitude. ICAO is active in infrastructure management, including communication, navigation and surveillance / air traffic management (CNS/ATM) systems, which employ digital technologies (like satellite systems with various levels of automation) in order to maintain a seamless global air traffic management system. [39] ICAO has published standards for machine-readable passports. [40] Machine-readable passports have an area where some of the information otherwise written in textual form is also written as strings of alphanumeric characters, printed in a manner suitable for optical character recognition, which enables border controllers and other law enforcement agents to process such passports more quickly without having to enter the information manually into a computer. ICAO's technical standard for machine-readable passports is contained in Document 9303 Machine Readable Travel Documents. [41] A more recent standard covers biometric passports. These contain biometrics to authenticate the identity of travellers. The passport's critical information is stored on a tiny RFID computer chip, much like information stored on smart cards. Like some smart cards, the passport book design calls for an embedded contactless chip that is able to hold digital signature data to ensure the integrity of the passport and the biometric data. 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