Introduction To The Aviation System

What is aerotropolis? What is the significance of this concept?

Aerotropolis and its significance

Aerotropolis is an urban sub-region with all its surroundings, layout, infrastructure, economy are centered on the airport. It is a city with an international airport in its heart and the area has been developed around it and grows within the airport. This includes logistics, aeronautical of the airport, commercial infrastructure and other aviation generated businesses. Residential development around the center that are dependent on the businesses around and their accessibility to the airport. It is a new way for the air industry to operate. By customer making and developing the area to enhance the interaction of the airports with the world around it. This concept is powerful because today, major airports play a vital role in the development of the economy. The rapid expansion of this concept based airports are making the aviation industry the main player of development of metropolitan area where travelers and the residents can do everything with the area around the airport. From businesses, shopping, restaurants as well as entertainment facilities no more than going 15 minutes away from the airport. This is changing the city airports and airport cities tremendously.

“ The 20th century was about cities building airports. The 21st-century will be about airports building cities ” – John D. Kasarda

With aviation generating more related businesses around the airport cities. It is emerging a new urban world- the aerotropolis. Some of the aerotropolis is stretching up to 20 miles from the airports. The aerotropolis consists of a well-planned digital strategic model. That brings together all the pillars of the aerotropolis development. Some of the things that are considered when planning the model are the business site, its profitability objectives, investments. The airport and the transportation between the airport and the local business, environmental sustainability. The development in today’s world is making the cities grown around the airports.

The biggest advantage of this is increase in employment with more businesses growing around the airports and connectivity. Aerotropolis has better infrastructure for logistics. Aerotropolis with free trade zone can be very beneficial as it minimizes the tax imposed on the goods that handled at the airports. The concept also has office headquarters and business parks nearby the airports. This helps in connecting the executives, staff and all the business professionals more efficiently to the market as well as having exhibition center and conference centers closer. With number of close hotels, shopping centers, restaurants and retail shops to the airport. It helps in serving the distant passengers as well the local residents. As travelers bring in the most of the revenue of the airports and hotels in the aerotropolis. This also has resident areas for serving the aerotropolis population. This benefits in easy commuting for the residents to work and take advantage of the all facilities offered within few miles from the airport. It is designed this way so everyone has access the local services, urban amenities and nice neighborhood all at one town. Aviation connects people from all around the world. Also, helps in expanding the businesses with fast and efficient sources of transport to number of markets across the globe. The aerotropolises are a huge advantage for fast-growing global economy. The aerotropolis

concepts mix the airport, urban and all the business planning together to create the best sustainable form for everyone. This concept is very efficient in every form from economically, socially and environmental sustainability included. This concept provides best lifestyle and business opportunities to everyone who live and work there by taking advantage of the latest innovations and business opportunities as well.

Discuss one annex and how it helps the aviation system maintain standard and recommended practices

Chicago Convention

The convention on international civil aviation which is also known as Chicago convention was signed by fifty two states on 7th December 1944. This also established the International civil aviation organization (ICAO). Which a specialized United nation agency looking after the international air travel. The Chicago convention has 19 annexes which contain the standards and recommended practices often known as SARPs. These annexes are amended time to time by ICAO to keep the aviation industry safe.

Annex 1

Annex1is Personal Licensing. It includes licensing of the cabin crew, pilots, aircraft maintenance staff, dispatchers, aeronautical operators and the air traffic controllers. These roles are important as all the staff in this industry has a special role. With each person playing their role with full attention, skills and knowledge. It keeps the functioning of the air transport smooth, safe and secure. To maintain that it is very important that the standard rules of maintenance and recommended practices are met by each and every staff member. Air transport isn't possible without cabin crew, pilots, ground staff with their skills and essential training.

Annex 1 sets out the standards and recommended practices for the licensing of the flight crew, from pilots, flight engineers, cabin crew, air traffic, controller, air navigators, aeronautical operators, maintenance staff, dispatchers by convention on the international civil aviation. This includes training manuals, guidance for the states regarding the training, what kind of training is required for certain type of role, what level, qualifications. To ensure the safe operations of the air transport. The annex one also provides training manuals for the guidance on the training of the other personnel included in the operations of air transport. For example flight operations officers, radio operators, emergency crew and other individuals. With increase in demand of travel and the advancement of technology. The aircraft operation in today's world has become diverse and very complex. Such advancement this household and making the air transport more efficient and reliable. Because it's fast and the chances of system break up with your failure of the system and complement our human error is low. To maintain that number of human error and system error low these standards and recommended that practices are set by annex 1. By having the right qualification, training and guidance for safe and secure operations of the air transport in every way.

Proper training to minimize human error is vital as well as choosing the right personnel with right skills and proficient. The Annex one and ICAO training manuals provide the guidance and skills that are necessary to build a proficiency at the number of jobs therefore it also contributes to occupational competency. The good health of all the personnel also very important. Because

human error accidents can occur due to adverse health conditions. To prevent such occurrences, Annex one has set medical standards which requires certain periodic health examinations to find out about any possible incapacitating medical conditions. And to contribute to general health of the flight crew and traffic controllers.

ICAO sets a human factor program in this annex which addresses the non-capabilities and limitations of the humans. It provides a vital role while designing a proper training program as it helps in improving the safety in aviation. This annex helps in improving the standards of safety in the aviation industry. By making the states more aware of the importance of the human factors in the air industry operations.

Personal licensing is one of the important the main annex that helps in providing high standards of licensing, training and qualifications for flight personnel. Licensing is an act of the authorizing activities which should otherwise be prohibited because of the potential serious accidents if not being performed properly. License sets the certain requirements for the applicant that are compulsory and have to met in order to perform certain tasks. The licensing exams includes number of physical fitness, heath and performance tests. These training and licensing conditions are crucial and critical for the overall achievement. By having these SARP's set by the annex 1. It makes the air travel safe and efficient as well as gives more confidence to the people regarding air transport to be more safe than road transport. One of the main task of this annex of personal licensing is to develop and settle the differences in licensing requirements globally. Ensure that international licensing standards are kept in place for safe operations of air transport in future. This gets harder with time and even more crucial with flight crew is getting more exposed to increase in traffic, airspace congestion and with more complicated terminal patterns. To keep the standards and recommended practices levels in place. Annex 1 is amended time to time with the rapidly changing environment and aviation industry.

References

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