

# **Aerodromes Certification - A Case of Marking Construction of Chiang Kai-Shek International Airport**

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## **ABSTRACT**

To ensure that airports are in compliance with the national standards. So as to improve the operation safety, the airport certification is going to be an important issue. In 2001, International Civil Aviation Organization had published “Manual on Certification of Aerodromes” to provide guidance to States in establishing their regulatory system for the certification of aerodromes. The purpose of the aerodromes certification is to ensure that the facilities, equipments and operational procedures at certified aerodromes are in compliance with the Standards and Recommended Practices specified in Volume I of Annex 14 to the Convention on International Civil Aviation.

This research discusses the domestic airport certification regularity, and provides a method to improve operation safety in the airside of an airport. Taking an example of the marking construction, this research focuses on the marking construction operational procedures of C.K.S. International Airport, and tries to build up a certified marking construction.

With the IDEF0 to describe the marking construction operation procedures and the PDCA Cycle principle to find out the shortcomings of the present marking construction operational procedures, referring to the experiences and regulations of other countries, suggestions to improve the process have been proposed. That is the marking construction has to include the active management, mechanism improvement, staff training, document records and data to achieve the objective of aerodromes certification and ensure the operational safety of airports.

Keywords : Aerodromes Certification, IDEF0, PDCA Cycle