

Safety assessment/ aeronautical study course

Course Objectives:

- ❖ To understand how and where to use the aeronautical study to compensate the ICAO requirements if any for the purpose of aerodrome certification standards deviation
- ❖ To gain the safety knowledge required for when and how to use safety assessment or risk management in the context of aerodrome safety management system
- ❖ To better identify safety inspection criteria for safety area for specific aerodrome
- ❖ Extensive work to approach the standard methodology for hazard identification and risk management process using IT tools including building related databases required for safety assessment either short or full process
- ❖ Establishing Aerodrome Operator Perspective Runway Safety program
- ❖ Ability to develop of an appropriate regulatory framework for aeronautical studies;
- ❖ Get an overall picture for establishing the scope of an aeronautical study; accurately define the objectives and processes to be followed and to document them as appropriate in the implementation plan.
- ❖ Become familiar with the methodologies used for the conduct of aeronautical studies (safety risk assessment).
- ❖ Understanding how to assess deviations from aerodrome standards and recommended practices specified in Volume I to Annex 14 to the Convention on International Civil Aviation;
- ❖ Ability to the present a possible alternative means to ensure the safety of aircraft operations and the evaluation of their effectiveness
- ❖ Gaining skills regarding conducting aerodrome compatibility studies
- ❖ At the end of the training period, the trainee will be able to provide a structured management approach to control safety risks in operations considering the organization's specific structures and processes related to safety of operations.
- ❖ Provide qualified SMS/SSP staff with a comprehensive application of safety management processes and practical examples on the use of it tools, to enhance efficiency and effectiveness of safety management activities

Course Main Topics:

- ❖ Establishing Regulatory framework for aeronautical studies/safety assessments Risk Assessment
- ❖ Understanding the Aeronautical Studies / Safety Assessments in the context of SMS
- ❖ Applying practical Method to Support Modification of Airfield Separation Standards
- ❖ Airport Design and Runway Incursion Prevention
- ❖ Operational Safety on Airport During Construction
- ❖ Aerodrome Design and Operations Physical Characteristics and Obstacle Limitation Surfaces (OLS) and safety related surfaces
- ❖ Runway excursion and mitigation measures
- ❖ Runway incursion toolkit
- ❖ Conducting aerodrome compatibility study=
- ❖ Understanding aircraft compatibility study
- ❖ Land use compatibility and aerodrome safeguarding
- ❖ Working with risk matrix
- ❖ **Developing specific aerodrome barrier model, risk matrices and full risk management process**

Who Should Attend: Personnel operating SMS and SSP

Course Duration: Two Weeks (90 hours)