



## Improving Safety and Operations through Managing Weather Hazards: Weather Risk Control Systems

### Course Objectives

Recent weather events (i.e., fog, snow storms) have vividly exposed the massive impact of weather on operations. Besides interruptions to flight schedules, passenger inconvenience, and 'bad publicity' it can be financially costly to both air operators and airports. In addition, there are many weather related dangers pilots face, enroute and in the airport environment, such as low level wind shear, icing and turbulence. Despite technological advances in weather forecasting, dissemination and presentation of weather related data, weather continues to be identified as a contributing factor in aviation occurrences worldwide; at all levels of the industry. Given encounters with weather hazards pose a safety and financial risk to operators, a program of investigating, and analysing weather encounters should form part of any operator's overall safety program.

This course will provide participants with information and guidance for developing and directing a comprehensive, systemic program to manage weather related risks; a Weather Risk Control System (Wx-RCS). Fundamentals in occurrence investigation, program organisation and structure provide the participants with the essential skills and methodology needed to develop, plan, and manage a Wx-RCS, and its incorporation into their company's existing overall safety program (i.e., SMS). Emphasis is placed on identifying and understanding weather hazards and the wide range of contributing factors through investigation using a sound framework for analysing weather related hazards and incidents. The course will also examine building a healthy safety culture (focusing on weather issues), understanding the principles of risk management and risk control systems, identifying program development strategies, and applying the knowledge toward effective program management to prevent the recurrence of weather occurrences.

### Who should attend?

Individuals responsible for planning, directing or managing a safety program and supervisors who are required to supervise an accident prevention / risk management program. This includes airline, commuter, corporate fixed base operator, helicopter operator, civil aviation authority, military, government, ANS provider, hospital emergency medical service, law enforcement, and airport management.

### Course Outline

- Weather Hazards
- FAA AC No. 120-88 (*released Dec 05*): *Preventing injuries caused by Turbulence*
- Cost of Accidents
- Quality Systems
- Safety Management System (SMS)
- Safety Management Elements
- Safety Program
- Corporate Safety Culture
- Role of Management
- Role of Dispatcher, and Pilots
- Organisational Influences on Safety
- Reporting Systems
- "Code Grey" proactive forecasting program
- Weather Occurrence Investigation
- Forecast and flight planning reviews
- Weather Decision Making
- Accident Prevention Concepts / Methods
- Safety Analysis / Evaluation
- Risk Assessment and Wx-Risk Control Systems
- Threat and Error Management
- Information dissemination and communication
- Case studies from around the world
- Improving weather training through Instructional Systems Design

### Take home

- Comprehensive course notebook
- Industry examples and solutions
- Certification of completion

**Course Duration:** 5 days.

**Fee:** \$1975.00 USD; bulk rates available for companies.

**Location:** Various locations – In-house available.

### For more information please contact:

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