

## **Aviation Safety 4409**

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Mark Dixon holds a current Airline Transport Pilot License, Class 1 Flight Instructor rating, all Pilot Examiner Authorities and an MBA from Ivey. Mark has been flying for 17 years and has over 5000hrs on a variety of small, medium and large aircraft. For the last 8 years at Transport Canada as a Flight Operations Inspector and has been extensively involved with the implementation of Safety Management Systems.

This course will be a combination of lecture, theory and cases. Cases should be read individually then discussed in your groups, leading to a lively in class discussion.

Textbook; MOS 4409- (available at the bookstore)

### **Course Grade Breakdown:**

- 30% Participation
- 30% Assignment-Korean Air
- 10% Case write up- Zeebrugge Car Ferry Disaster
- 30% Final Exam

## Course Objectives

- Introduction to Aviation Safety
- Introduction to Safety Management Systems
- Analysis Required to develop Safety Strategies
- How to Drive and Measure Safety Performance

### **Class 1**

- Introductions
- SMS Theory
- Regulations
- Types of Management Systems

### **Class 2**

- Balanced Scorecard- Harvard Business Review
- Case- China Airlines-ICMR

### **Class 3**

- China Airlines (cont)
- Risk Mitigations in Large-Scale Systems- Harvard Business Review
- Case- Jet Propulsion Laboratory- Harvard Business School

### **Class 4**

- Case- Jet Propulsion Laboratory- Harvard Business School (cont)

### **Class 5**

- Facing Ambiguous Threats- Harvard Business Review
- Case – Alaska Airlines and Flight 261- Harvard Business School

## **Class 6**

- Alaska Airlines (cont)
- Case – The Zeebrugge Car Ferry Disaster- University of Saskatchewan
- Guest Speaker- Ivey Strategy Professor Glenn Rowe, Retired Naval Captain

## **Class 7**

- Assignment Case- Korean Air
- Assignment Discussion

## **Class 8**

- Flight Ops Safety
- Case United 173 –European School of Management
- Case United 232 –European School of Management

## **Class 9**

- Competing on Analytics- Harvard Business Review
- Case – Space Shuttle- Ivey School of Business

## **Class 10**

- Cultivating a Healthy Appetite for Risk- Harvard Management Update
- Case- Spring Airlines- Centre for Management Research

## **Class 11**

- Assessments

- Transport Canada SUR-001- Available on Web
- Project Review/Discussion
- Case- Korean Air & Korean Air Assignment

## **Class 12**

- Global Safety
- Strategic Compliance Management- Harvard Business School
- Guest Speaker TBC- Ray Mcfeetors- Pilot/Chairman of the Board Great West Life
- Case – Flying Light: British Airways Flight 268(A) Darden Publishing
- Final Exam Prep Discussion/Review

## **Class 13**

- Final Exam
- Case TBD

***FLY SAFE AND POSITIVE DCF!***