



# **Aeroplane Upset Prevention and Recovery Training**

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**Jeddah, Kingdom of Saudi Arabia**

**February 3-6, 2020**

# Who has taken the course?



# Introductions

- Around the room
  - Name
  - Organization
  - Reason for attending

# Course Preview

- February 3 0900-1630
  - Introduction
  - Background
  - Worldwide rules and guidance
  - Academic upset training
  - Implementation Lessons Learned
- February 4 0800-1700
  - 4 x A330 simulator session (3 trainees each)
  - 4 x B787 simulator sessions (3 trainees each)
- February 5 0800-1700
  - 4 x A330 simulator session (3 trainees each)
  - 4 x B787 simulator sessions (3 trainees each)

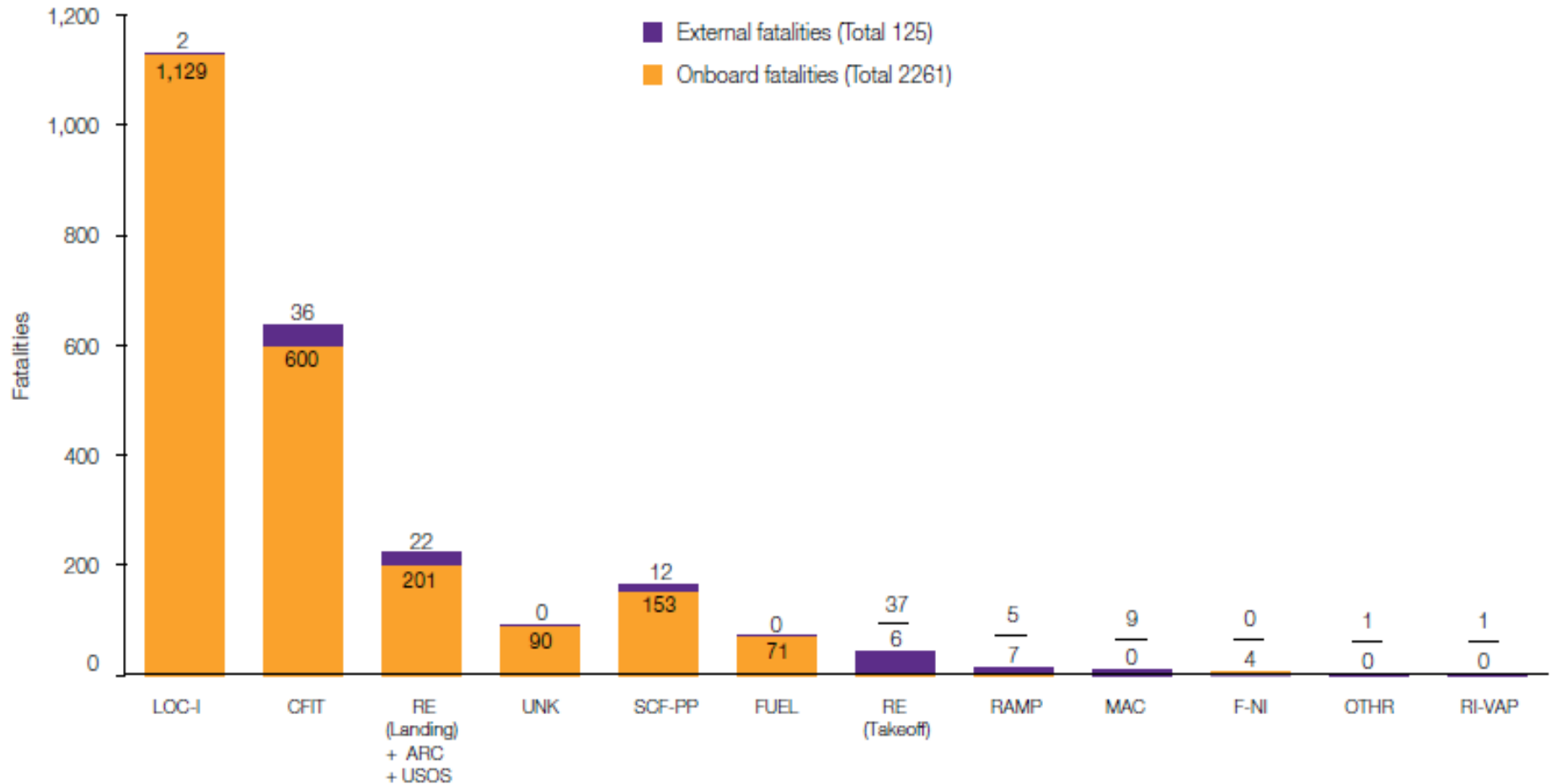
# Course Preview

- February 6 0800-1700
  - 4 x A330 simulator session (3 trainees each)
  - 4 x B787 simulator sessions (3 trainees each)

The problem

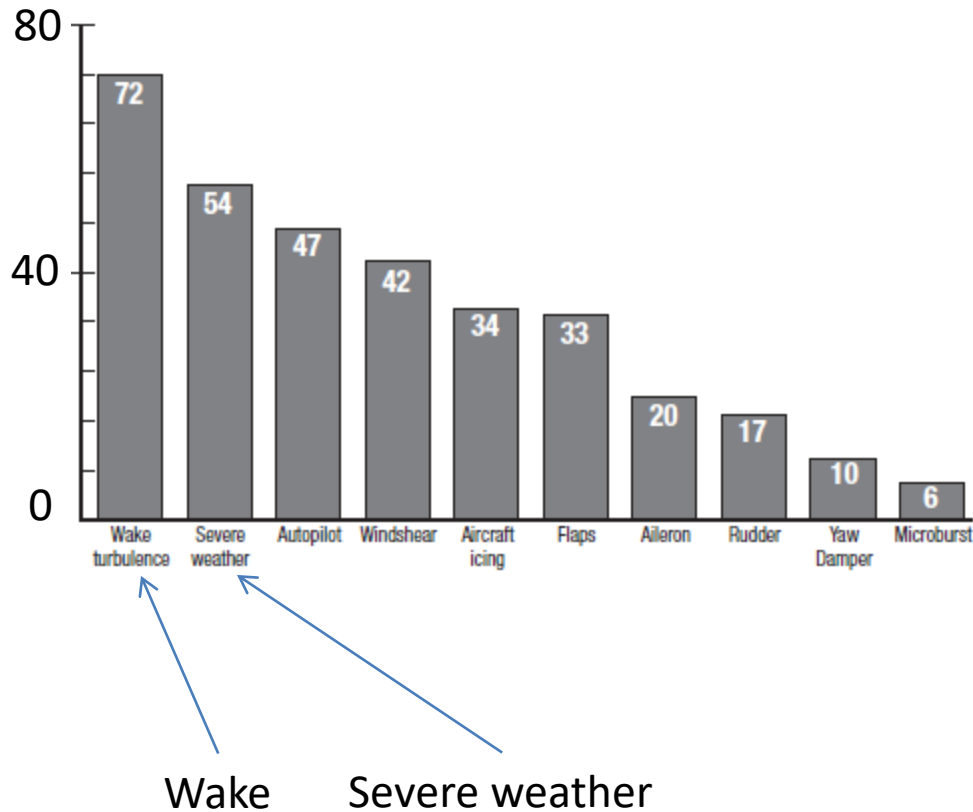
# Upset Accidents and Incidents

Fatal Accidents | Worldwide Commercial Jet Fleet | 2008 through 2017



# Upset Accidents and Incidents

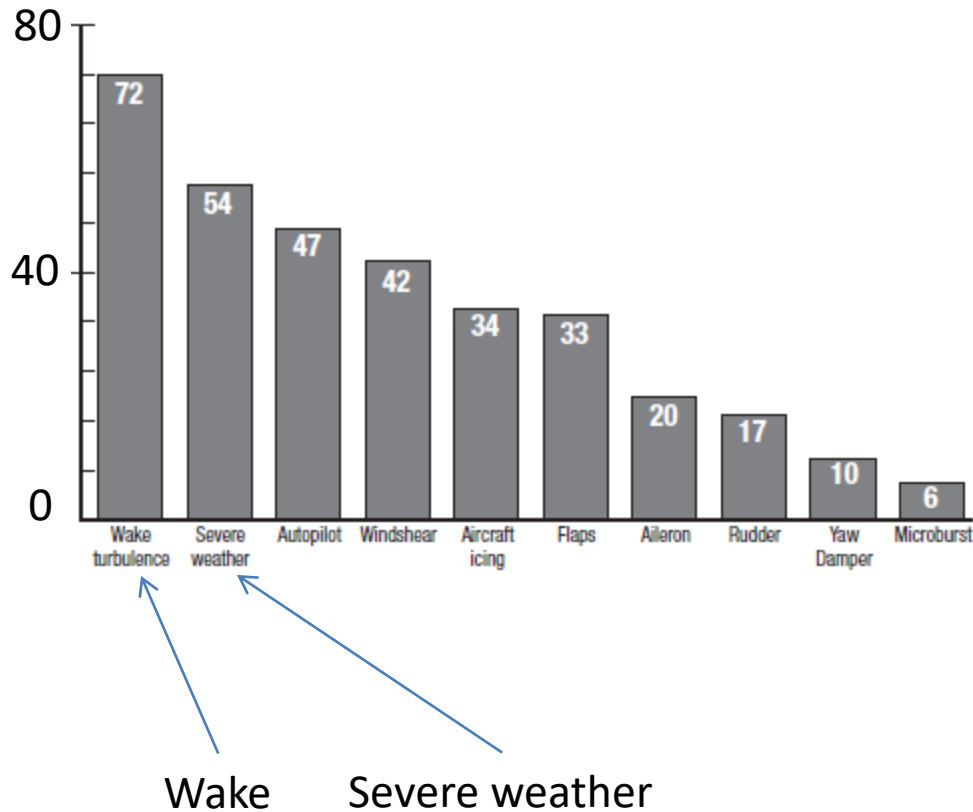
Loss-of-control incidents  
1996-2002



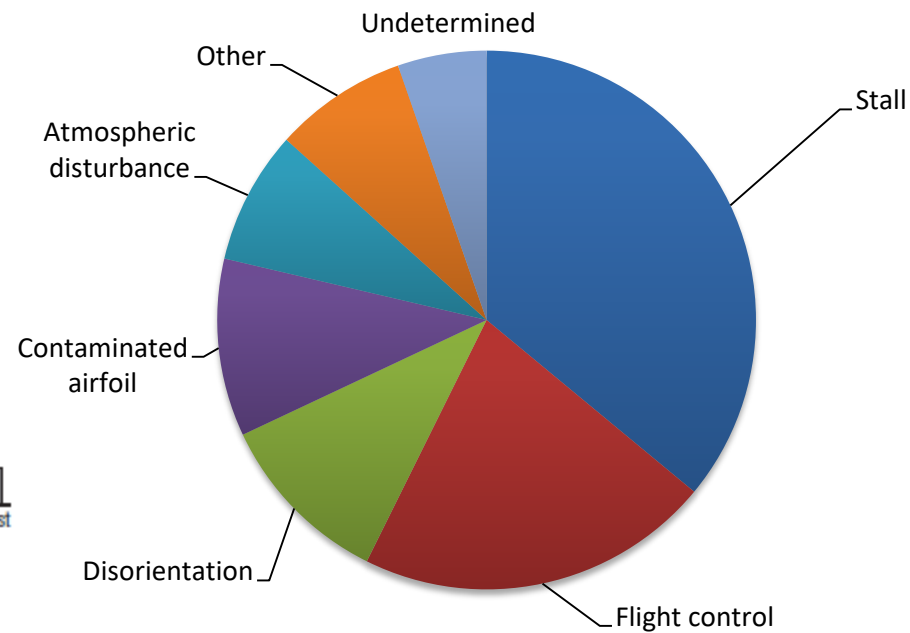


# Upset Accidents and Incidents

Loss-of-control incidents  
1996-2002



Loss-of-control accidents  
1993-2007



# Upset Accidents and Incidents

Catastrophic upsets are still rare

30 catastrophic upsets per billion flight hours

# Objectives

- Understand reasons for upset training
- Understand recent upset training regulations
- Understand basics of upset aerodynamics
- Learn how to prevent and recover from upsets
- Learn about instructor requirements
- Understand upset training limitations
- Learn about ATO implementation experience
- Fly useful exercises in the simulator