

# Air Safety

Syllabus Number 2E305  
Helicopter Pilot Course  
Elective Requisites  
2 credit

IMAI, Michio

## 1. Course Description

Study CRM, LOFT, and incidents to learn concrete action, based on human factor. Mainly, this course is in a lecture style, but practical training may be held as needed.

Please learn knowledge related to DP2.

This course is taught by teachers with practical experience. The instructor is involved in the helicopter operation in a company, and in class, discussions are held on topics such as actual examples and actual experiences in the company and issues on the site.

## 2. Course Objectives

Learn methods and actions to ensure air safety.

The goal is to understand what safety is in aviation.

## 3. Grading Policy

This lecture is evaluated by the result of a quiz (50%) and report (50%).

The answer of each quiz will be explained.

## 4. Textbook and Reference

Textbook

Akinori Komatsubara Human error third edition Published by Maruzen Co., Ltd., ISBN 978-4-621-08057-3

Reference

Akira Ishibashi Why is the accident repeated? Central Labor Accident Prevention Association ,ISBN 978-4-8059-1027-6

ANA Practical Approach to Human Factors Books · Fuji

JAPA AIM-J JAPA, ISBN 978-4-931160-02-6

## 5. Requirements(Assignments)

Please study assigned vocabularies in notebooks before each class (1 hour).

Case studies will be assigned. Search for documents and make a report and presentation in next the class (2 hours). The Presentation will be evaluated.

## 6. Note

Comprehension will be evaluated by quizzes.

## 7. Schedule

- [1] Learn overview of air safety.
- [2] Learn about human error.
- [3] Learn the limit of human ability.
- [4] Learn mistakes and forgetting.
- [5] Learn human error occurred by lack of knowledge and skill.
- [6] Learn about violation and factors behind cases.
- [7] Learn CRM and team error.
- [8] Learn about safety culture.
- [9] Learn rules and principals of safety.
- [10] Learn aeronautical safety / law, action for safety and safety management.
- [11] Learn about safety support device.
- [12] Learn Incident Case 1.
- [13] Learn aeronautical incident case.
- [14] Learn aeronautical incident case of helicopter.
- [15] Introducing enlightenment activities of safety and overview.  
Final Exam.