

# Comprehensive Exercise of Control Technique of Helicopter: Part-1

Syllabus Number

2E110

Special Subjects

Elective 1 credit

IMAI, Michio

## 1. Course Description

Please study the examination subjects (system engineering, radio communication, navigation and law) to pass the written test for private pilot license. Using an actual helicopter to understand external inspection, start-up procedure, three controls (rudder, cyclic pitch and collective pitch), hovering, take-off & landing and autorotation.

Mainly, this course is carried out with practical training.

This subject is related to DP 2, 4, 5.

## 2. Course Objectives

Please study in order to pass the written test for private pilot license in March or July. Students will learn the further knowledge necessary to fly as private pilots.

## 3. Grading Policy

This subject is evaluated by the result of trial examination (80%) and participation (20%).

You are required to go through and explain the answer of the trial examinations.

## 4. Textbook and Reference

Textbook

Pilot's Operating Handbook

ALP

Reference

Study guide of the written test JAPA ISBN 978-4-931160-07-1

## 5. Requirements(Assignments)

Lecture is based on answer of trial quizzes handed out before each class (2 hours). Review and write down the necessary information for the commercial pilot test, with linking to lecture and practical trainings, in notebooks (1 hour). 3 hours of preparation and review is necessary.

## 6. Note

Class is held at Shimozuma heliport.

## 7. Schedule

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|------|---|
| [1]  | External inspection, Start-up test procedure                                      |
| [2]  | Three controls, Hovering  |
| [3]  | Take-off/ landing, Autorotation   |
| [4]  | Preparation for the examination (System Engineering- Basic)                       |
| [5]  | Preparation for the examination (System Engineering- Air Dynamics)                |
| [6]  | Preparation for the examination (System Engineering- Fundamental System)          |
| [7]  | Preparation for the examination (System Engineering- Flight Manual)               |
| [8]  | Preparation for the examination (Aeronautical Communication- Air Traffic Control) |
| [9]  | Preparation for the examination (Aeronautical Communication- Traffic Control)     |
| [10] | Preparation for the examination (Laws- Aeronautics Law)                           |
| [11] | Preparation for the examination (Laws-Operation Method)                           |
| [12] | Preparation for the examination (Navigation)                                      |
| [13] | Preparation for the examination (Navigation-General Knowledge)                    |
| [14] | Preparation for the examination (Weather-Basic)                                   |
| [15] | Preparation for the examination (Aviation Weather)                                |