

Helicopter Flying Handbook

Trade Paperback + PDF eBook "bundle" version: Trade paperback book comes with code to download the eBook from ASA's website. This comprehensive textbook explains the aerodynamics of helicopter flight as well as helicopter maneuvers, going beyond the strictly "how-to" type of aviation manual. Helicopter pilots need to thoroughly understand the consequences of their actions and base them upon sound technical knowledge; this textbook explains why the helicopter flies and even more importantly, why it sometimes does not. Beginning with aerodynamics, each step of the process is fully illustrated and thoroughly explained--from the physics of advanced operations to helicopter design and performance--providing helicopter pilots with a solid foundation upon which to base their in-flight decisions. Containing discussions on the NOTAR (no tail rotor) system, strakes, principles of airspeed and high-altitude operations, operations on sloping surfaces, and sling operations, this revised edition also includes the latest procedures Federal Aviation Administration.

The essential guide for anyone who wants to fly a helicopter—newly updated.

The Rotorcraft Flying Handbook is designed as a technical manual for applicants who are preparing for their private, commercial, or flight instructor pilot certificates with a helicopter or gyroplane class rating. Certificated flight instructors may find this handbook a valuable training aid, since detailed coverage of aerodynamics, flight controls,

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systems, performance, flight maneuvers, emergencies, and aeronautical decision making is included. Topics, such as weather, navigation, radio navigation and communications, use of flight information publications, and regulations are available in other Federal Aviation Administration (FAA) publications. This handbook conforms to pilot training and certification concepts established by the FAA. There are different ways of teaching, as well as performing flight procedures and maneuvers, and many variations in the explanations of aerodynamic theories and principles. This handbook adopts a selective method and concept to flying helicopters and gyroplanes. The discussion and explanations reflect the most commonly used practices and principles. An updated resource for instrument flight instructors, pilots, and students.

THE ESSENTIAL HANDBOOK FOR EVERY HELICOPTER PILOT - FROM THE BASICS TO ADVANCED FLIGHT MANEUVERS! TOP-QUALITY FULL-SIZE HARDCOVER EDITION. FULL COLOR THROUGHOUT: *the theory and practice of helicopter flight cannot be fully explained or adequately understood with black-and-white illustrations; color is vital. This edition uses full color from start to finish. FULL-SIZE 8.5" x 11" edition: large, easy-to-read text and illustrations.*

CASEBOUND: *hardcover binding looks great and protects your book from everyday damage. Printed on PREMIUM-WEIGHT 70 lb paper stock for superior quality & longevity: ideal for professional libraries! The Helicopter Flying Handbook is a technical manual for pilots who are*

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preparing for their private, commercial, or flight instructor pilot certificates with a helicopter class rating. Certificated flight instructors will also find this handbook a valuable training aid, since detailed coverage of aerodynamics, flight controls, systems, performance, flight maneuvers, emergencies, and aeronautical decision-making are included. INTRODUCTION TO THE HELICOPTER - AERODYNAMICS OF FLIGHT - HELICOPTER FLIGHT CONTROLS - HELICOPTER COMPONENTS, SECTIONS AND SYSTEMS - ROTORCRAFT FLIGHT MANUAL - WEIGHT AND BALANCE - HELICOPTER PERFORMANCE - GROUND PROCEDURES AND FLIGHT PREPARATIONS - BASIC FLIGHT MANEUVERS - ADVANCED FLIGHT MANEUVERS - HELICOPTER EMERGENCIES AND HAZARDS - ATTITUDE INSTRUMENT FLYING - NIGHT OPERATIONS - EFFECTIVE AERONAUTICAL DECISION-MAKING Proudly published in the USA by Carlile Aviation Library

An official publication of the Federal Aviation Administration, this is the ultimate technical manual for anyone who flies or wants to learn to fly a helicopter. If you're preparing for private, commercial, or flight instruction pilot certificates, it's more than essential reading—it's the best possible study guide available, and its information can be lifesaving. In authoritative and easy-to-understand language, here are explanations of general aerodynamics and the aerodynamics of flight, navigation, communication, flight controls, flight maneuvers,

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emergencies, and more. Also included is an extensive glossary of terms ensuring that even the most technical language can be easily understood. Helicopter Flying Handbook is an indispensable text for any pilot who wants to operate a helicopter safely in a range of conditions. Chapters cover a variety of subjects including helicopter components, weight and balance, basic flight maneuvers, advanced flight maneuvers, emergencies and hazards, aeronautical decision making, night operations, and many more. With full-color illustrations detailing every chapter, this is a one-of-a-kind resource for pilots and would-be pilots.

This ALL NEW (B&W) OCTOBER 2019 released handbook supersedes FAA-H-8083-21A, Helicopter Flying Handbook, dated 2012. The Helicopter Flying Handbook is designed as a technical manual for applicants who are preparing for their private, commercial, or flight instructor pilot certificates with a helicopter class rating. Certificated flight instructors may find this handbook a valuable training aid, since detailed coverage of aerodynamics, flight controls, systems, performance, flight maneuvers, emergencies, and aeronautical decision-making is included. Topics such as weather, navigation, radio navigation and communications, use of flight information publications, and regulations are available in other Federal Aviation Administration (FAA) publications. This handbook conforms to pilot training and certification concepts established by the FAA. There are different ways of teaching, as well as performing, flight procedures and

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[Helicopter Flying Handbook. Faa 8083-21A Principles of Helicopter Flight \(eBundle Edition\) FAR / AIM 2010](#)

[Helicopter Flying Handbook](#)

[Helicopter Flying Handbook \(FAA-H-8083-21B\): Federal Aviation Administration](#)

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[Federal Aviation Regulations / Aeronautical Information Manual](#)

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The unique design problems which helicopters produce are many and complex. Through practical examples and illustrated case studies, supported by all the relevant theory, this primer text provides an accessible introduction which guides the reader through the theory, design, construction and operation of helicopters.

Fundamental performance and control equations are developed, from which the book explores the rotor aerodynamic and dynamic characteristics of helicopters.

Example calculations and performance predictions, reflecting current practice, show how to assess the feasibility of a design. * Tackles the theory, design, construction and operation of helicopters * Illustrated with many practical examples and case studies *

Provides the fundamental equations describing performance and dynamic behaviour

One problem with helicoptering is that there are virtually no flying clubs, at least of the sort that exist for fixed wing, so pilots get very little chance to swap stories, unless they meet in a muddy field somewhere, waiting for their passengers. As a result, the same mistakes are being made and the same lessons learnt separately instead of being shared - it's comforting sometimes to know that you're not the only one to inflate the floats by accident! Even when you do get into a school, there are still a couple of things they don't teach you, namely that aviation runs on paperwork, and how to get a job,

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including interview techniques, etc - flying the aircraft is actually less than a third of the job. Another is that nobody really tells you anything, either about the job you have to do (from the customer) or how to do it (the company) - you will always be up against the other guy who managed to do it last week! Sure, there will be training, but, even in the best companies, this will be relatively minimal. This book is an attempt to correct the above situations by gathering together as much information as possible for helicopter pilots, old and new, professional and otherwise, in an attempt to explain the why, so the how will become easier (you will be so much more useful if you know what the customer is trying to achieve). In short, this is all the stuff nobody taught me - every tip and trick I have learnt has been included. The Rotorcraft Flying Handbook is designed as a technical manual for applicants who are preparing for their private, commercial, or flight instructor pilot certificates with a helicopter or gyroplane class rating. Certificated flight instructors may find this handbook a valuable training aid, since detailed coverage of aerodynamics, flight controls, systems, performance, flight maneuvers, emergencies, and aeronautical decision making is included. Topics, such as weather, navigation, radio navigation and communications, use of flight information publications, and regulations are available in other Federal Aviation Administration (FAA) publications. This handbook conforms to pilot training and certification concepts established by the FAA. There are different ways of teaching, as well as performing flight procedures and maneuvers, and many variations in

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the explanations of aerodynamic theories and principles. This handbook adopts a selective method and concept to flying helicopters and gyroplanes. The discussion and explanations reflect the most commonly used practices and principles. Occasionally, the word “ must ” or similar language is used where the desired action is deemed critical. The use of such language is not intended to add to, interpret, or relieve a duty imposed by Title 14 of the Code of Federal Regulations (14 CFR). This handbook is divided into two parts. The first part, chapters 1 through 14, covers helicopters, and the second part, chapters 15 through 22, covers gyroplanes. The glossary and index apply to both parts. It is essential for persons using this handbook to also become familiar with and apply the pertinent parts of 14 CFR and the Aeronautical Information Manual (AIM). Performance standards for demonstrating competence required for pilot certification are prescribed in the appropriate rotorcraft practical test standard. This handbook supersedes Advisory Circular (AC) 61-13B, Basic Helicopter Handbook, dated 1978. In addition, all or part of the information contained in the following advisory circulars are included in this handbook: AC 90-87, Helicopter Dynamic Rollover; AC 90-95, Unanticipated Right Yaw in Helicopters; AC 91-32B, Safety in and around Helicopters; and AC 91-42D, Hazards of Rotating Propeller and Helicopter Rotor Blades.

There is a growing interest in mountain flying and a significant lack of information on the subject available to the helicopter pilot. The aim of this book is to supply this much-needed information and to present it in an easy-to-

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read format. In this handbook safe mountain flying techniques are explained in simple, non-technical language. The author also explains Advanced Techniques which are not covered in other training manuals and which will be of particular interest to pilots already holding their helicopter license.

Compiled by the Federal Aviation Administration, this handbook is the ultimate technical manual for anyone who flies or wants to learn to fly a helicopter. If you 're preparing for private, commercial, or flight instruction pilot certificates, it 's more than essential reading—it 's the best possible study guide available, and its information can be life-saving. In authoritative and easy-to-understand language, here are explanations of general aerodynamics and the aerodynamics of flight, navigation, communication, flight controls, flight maneuvers, emergencies, and more. Also included is an extensive glossary of terms ensuring that even the most technical language can be easily understood. The Helicopter Flying Handbook is an indispensable text for any pilot who wants to operate a helicopter safely in a range of conditions. Chapters cover a variety of subjects including helicopter components, weight and balance, basic flight maneuvers, advanced flight maneuvers, emergencies and hazards, aeronautical decision making, night operations, and many more. With full-color illustrations detailing every chapter, this is a one-of-a-kind resource for pilots and would-be pilots.

This handbook supersedes FAA-H-8261 -16, Instrument Procedures Handbook, dated 2014. It is designed as a technical reference for all pilots who operate under

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instrument flight rules (IFR) in the National Airspace System (NAS). It expands and updates information contained in the FAA-H-8083-15B, Instrument Flying Handbook, and introduces advanced information for IFR operations. Instrument flight instructors, instrument pilots, and instrument students will also find this handbook a valuable resource since it is used as a reference for the Airline Transport Pilot and Instrument Knowledge Tests and for the Practical Test Standards. It also provides detailed coverage of instrument charts and procedures including IFR takeoff, departure, en route, arrival, approach, and landing. Safety information covering relevant subjects such as runway incursion, land and hold short operations, controlled flight into terrain, and human factors issues also are included. The FAA ' s primary resource for teaching helicopter operations, this handbook to helicopter flight training contains detailed coverage of all required knowledge areas. This manual is a companion to the Helicopter Flying Handbook and is designed as a technical manual for use by applicants who are preparing for their flight instructor pilot certificate with a helicopter class rating, as well as for experienced helicopter instructors preparing other pilots for a helicopter rating. Illustrated throughout with detailed, full-color drawings and photographs, it covers both aeronautical knowledge and skills for operating the aircraft and the FAA ' s official helicopter-instructing methods, procedures, and regulations. In addition to a basic introduction to the helicopter and its systems, chapters on aerodynamics, flight controls, performance, ground procedures, flight maneuvers,

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emergencies and hazards, attitude instrument flying, and night operations are included. Flight training subjects are supported with information on common student errors, practical flight instructor tips and strategies, instructional hazards, and sample lesson plans.

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[Helicopter Maneuvers Manual](#)

[FAA: H-8083-21A.](#)

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[Rotorcraft Flying Handbook Faa-h-8083-21](#)

[Helicopter Flying Handbook: FAA-H-8083-21A](#)

The Aviation Instructor's Handbook is a world-class educational reference tool developed and designed for ground instructors, flight instructors, and aviation maintenance instructors. This information-packed handbook provides the foundation for beginning instructors to understand and apply the fundamentals of instructing. It also provides aviation instructors with detailed, up-to-date information on learning and teaching, and how to relate this information to the task of conveying aeronautical knowledge and skills to students. Experienced aviation instructors will also find the new and updated information useful for improving their effectiveness in training activities. No aviation instructor's library is complete without the up-to-date Aviation Instructor's

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Handbook.

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Certificated flight instructors may find this handbook a valuable training aid, since detailed coverage of aerodynamics, flight controls, systems, performance, flight maneuvers, emergencies, and aeronautical decision making is included. Contents:

Chapter 1—Introduction to the Helicopter; Chapter 2—General Aerodynamics; Chapter 3—Aerodynamics of Flight; Chapter 4—Helicopter Flight Controls; Chapter 5—Helicopter Systems; Chapter 6—Rotorcraft Flight Manual (Helicopter); Chapter 7—Weight and Balance; Chapter 8 Performance; Chapter 9—Basic Flight Maneuvers; Chapter 10—Advanced Maneuvers; Chapter 11—Helicopter Emergencies; Chapter 12—Attitude Instrument Flying; Chapter 13—Night Operations; Chapter 14—Aeronautical Decision Making; Chapter 15—Introduction to the Gyroplane; Chapter 16—Aerodynamics of the Gyroplane; Chapter 17—Gyroplane Flight Controls; Chapter 18—Gyroplane Systems; Chapter 19—Rotorcraft Flight Manual (Gyroplane); Chapter 20—Flight Operations; Chapter 21—Gyroplane Emergencies; Chapter 22—Gyroplane Aeronautical Decision Making; Glossary and index.

This 2019 Helicopter Flying Handbook supersedes FAA-H-8083-21A, Helicopter Flying

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Handbook, dated 2012. The Helicopter Flying Handbook 2019 is designed as a technical manual for applicants who are preparing for their private, commercial, or flight instructor pilot certificates with a helicopter class rating. Certificated flight instructors may find this handbook a valuable training aid, since detailed coverage of aerodynamics, flight controls, systems, performance, flight maneuvers, emergencies, and aeronautical decision-making is included. Topics such as weather, navigation, radio navigation and communications, use of flight information publications, and regulations are available in other Federal Aviation Administration (FAA) publications. This handbook conforms to pilot training and certification concepts established by the FAA. There are different ways of teaching, as well as performing, flight procedures and maneuvers, and many variations in the explanations of aerodynamic theories and principles. This handbook adopts a selective method and concept to flying helicopters. The discussion and explanations reflect the most commonly used practices and principles. Occasionally the word "must" or similar language is used where the desired action is deemed critical. The use of such language is not intended to add to, interpret, or relieve a duty imposed by Title 14 of the Code of Federal Regulations (14 CFR). Persons working towards a helicopter rating are advised to review the references from the applicable

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Pilot's Handbook of Aeronautical Knowledge, created by the Federal Aviation Administration, is the official reference manual for pilots at all levels. An indispensable and invaluable encyclopedia, it deals with all aspects of aeronautical information. Each chapter focuses on a different area that pilots are tested on in flight school and must need to know before they fly a plane on of their own. These topics include: aircraft structure principles of aerodynamics flight controls aircraft systems flight instruments and more Flight manuals and documentation are also covered, as is specialized information on such matters as weight and balance, aircraft performance, weather, navigation, airport operations,

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aeromedical factors, and decision-making while flying. An updated appendix, detailed index, and full glossary make this book easy to navigate and useful in quick reference situations.

Trade Paperback + PDF eBook version: Trade paperback book comes with code to download the eBook from ASA's website. This is the FAA's primary resource for helicopter operations knowledge; it is essential reading for applicants preparing for the exams for private, commercial, or flight instructor pilot certificates with a helicopter class rating. In addition to a basic introduction to the helicopter, readers will find chapters on aerodynamics, flight controls, systems, performance, ground procedures, basic and advanced flight maneuvers, emergencies and hazards, attitude instrument flying, night operations, and aeronautical decision-making. Previously titled Rotorcraft Flying Handbook, this new edition is designed for use by flight instructors, pilots preparing for a helicopter rating FAA Knowledge and Practical exam, and helicopter-rated pilots wishing to improve their knowledge.

Compiled by the Federal Aviation Administration, this handbook is the ultimate technical manual for any flight instructor who must teach inexperienced students how to fly helicopters. Whether your course ends in students receiving private, commercial, or flight instruction pilot certificates, this book is more than just essential reading—it's

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the best possible study guide available, and its information can be life-saving. This handbook conforms to flight instructor pilot training and certification concepts established by the FAA. In authoritative and easy-to-understand language, here are explanations of general aerodynamics and the aerodynamics of flight, navigation, communication, flight controls, flight maneuvers, emergencies, and more. Also included is an extensive glossary of terms ensuring that even the most technical language can be easily understood. The Helicopter Instructor's Handbook is an indispensable text for any flight instructor who wants his or her students to operate a helicopter safely in a range of conditions. Chapters cover a variety of subjects including helicopter components, weight and balance, basic flight maneuvers, advanced flight maneuvers, emergencies and hazards, aeronautical decision making, night operations, and many more. With full-color illustrations detailing every chapter, this is a one-of-a-kind resource for instructors and their future pilots.

THE ESSENTIAL HANDBOOK FOR EVERY HELICOPTER PILOT - FROM THE BASICS TO ADVANCED FLIGHT MANEUVERS! FULL COLOR THROUGHOUT: the theory and practice of helicopter flight cannot be fully explained or adequately understood with black-and-white illustrations; color is vital. Unlike other versions available, this edition uses full color from start to finish.

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Adhering to a reputation for excellence, this definitive manual of the latest civil aviation directives has been fully updated and indexed to clearly reflect all the changes in the Federal Aviation Regulations (FAR) and the Aeronautical Information Manual (AIM) over the past year. In addition to the regulations, AIM procedures, and redrawn AIM illustrations, this retypeset edition also includes a study guide for specific pilot certifications and ratings, a pilot/controller glossary, the NASA Aviation Safety reporting form, important FAA contact information, and a free e-mail service that accounts for regulation changes throughout the publication year via the Aviation Supplies & Academics website. A combined FAR/AIM index is also included.

The FAA's Helicopter Flying Handbook introduces the skills and knowledge essential for piloting helicopters. It benefits student pilots just beginning their aviation endeavors, as well as pilots preparing for additional certificates and ratings or who want to improve their flying proficiency, and flight instructors engaged in teaching pilots of all skill levels. This handbook provides information and guidance on the procedures and maneuvers required for pilot certification. In addition to a basic introduction to the helicopter, readers will find chapters on aerodynamics, flight controls, components and systems, the rotorcraft flight manual, weight and balance, performance, ground procedures, basic and advanced flight maneuvers, emergencies and hazards, attitude instrument flying and night operations. The Helicopter Flying Handbook is the official FAA source for learning to fly helicopters and is a primary reference for the FAA Knowledge Exams. Complete with chapter summaries and illustrated throughout with detailed, full-color drawings and photographs. It also includes a comprehensive glossary and index.

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From the FAA, the only handbook you need to learn to fly a powered parachute.

Preface, Acknowledgments Table of Contents Chapter 01: Introduction to the Helicopter Chapter 02: Aerodynamics of Flight Chapter 03: Helicopter Flight Controls Chapter 04: Helicopter Components, Sections, and Systems Chapter 05: Rotorcraft Flight Manual Chapter 06: Weight and Balance Chapter 07: Helicopter Performance Chapter 08: Ground Procedures and Flight Preparations Chapter 09: Basic Flight Maneuvers Chapter 10: Advanced Flight Maneuvers Chapter 11: Helicopter Emergencies and Hazards Chapter 12: Attitude Instrument Flying Chapter 13: Night Operations Chapter 14: Effective Aeronautical Decision-Making Glossary & Index

Providing a detailed look at helicopter maneuvers, the information in this guide helps to solidify concepts gained from flight training in a student pilot's mind by incorporating the Practical Test Standards into every maneuver description. The graphical and textual explanations work in conjunction with an instructor's lessons, allowing students to prepare before sessions and to review afterwards as well. Because helicopter pilots must rely on their memory or understanding of a particular maneuver, the Helicopter Maneuvers Manual provides readers with a crystal-clear picture of what level of performance is expected of them every step and includes insights into the common errors associated with each move. A vital resource for pilots, instructors, and students, from the most trusted source of aeronautic information.

Includes all corrections, addenda and changes as of October 2019 The Helicopter Flying Handbook is designed as a technical manual for applicants who are preparing for their private, commercial, or flight instructor pilot certificates with a helicopter class rating. Certificated flight instructors may find this handbook a valuable training aid, since detailed coverage of aerodynamics, flight controls, systems,

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The current Flight Standards Service airman training and testing material and learning statements for all airman certificates and ratings can be obtained from www.faa.gov.

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[Faa-H-8083-21b](#)

The Flight Navigator Handbook provides information on all phases of air navigation and is a source of reference for everyone in the field, from navigators to navigator students. This handbook explains how to measure, chart the earth, and use flight instruments to solve basic navigation problems. It also contains data pertaining to flight publications, preflight planning, in-flight procedures, and low altitude navigation. Specific topics covered throughout the pages of this informational and helpful guide include: Reading maps, charts, and grids Dead reckoning Radio aid fixing and radio navigation Celestial concepts and special celestial techniques Computing altitude Pressure pattern navigation And much more!

Additional information can also be found in the four included and up-to-date appendixes. This includes a listing of references and supporting information used in this publication; mathematical formulas to use as an aid in preflight and in-flight computations; chart and navigation symbols; and a Celestial Computation Sheet.

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Handbook is designed as a technical manual for applicants who are preparing for their private, commercial, or flight instructor pilot certificates with a helicopter class rating. Certificated flight instructors may find this handbook a valuable training aid, since detailed coverage of aerodynamics, flight controls, systems, performance, flight maneuvers, emergencies, and aeronautical decision-making is included. Topics such as weather, navigation, radio navigation and communications, use of flight information publications, and regulations are available in other Federal Aviation Administration (FAA) publications. This handbook conforms to pilot training and certification concepts established by the FAA. There are different ways of teaching, as well as performing, flight procedures and maneuvers, and many variations in the explanations of aerodynamic theories and principles. This handbook adopts a selective method and concept to flying helicopters. The discussion and explanations reflect the most commonly used practices and principles. Occasionally the word "must" or similar language is used where the desired action is deemed critical. The use of such language is not intended to add to, interpret, or relieve a duty imposed by Title 14 of the Code of Federal Regulations (14 CFR). Persons working towards a helicopter rating are advised to review the references from the applicable practical test standards (FAA-S-8081-3 for recreational applicants, FAA-S-8081-15 for private applicants, and FAA-S-8081-16 for commercial applicants). Resources for study include FAA-H-8083-25, Pilot's Handbook of Aeronautical Knowledge, and FAA-H-8083-1, Aircraft Weight and Balance Handbook, as these documents contain basic material not duplicated herein. All beginning applicants should refer to FAA-H-8083-25, Pilot's Handbook of Aeronautical

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Knowledge, for study and basic library reference.

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