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TP 11408E
(08/2007)

Study and Reference Guide

Air Law and Procedures – Class “E” Airspace

Hang Glider

Fourth Edition
August 2007

TC-1002379



Canada

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GENERAL

The conditions of issue of all flight crew licences and ratings are stated in the Canadian Aviation Regulations (CARs).

EXAMINATION PREREQUISITES

Prior to taking a written examination, an applicant shall meet the prerequisites for the examination set out in the personnel licensing standards with respect to CAR 401.13(1)

- a. medical fitness;
- b. identification;

KNOWLEDGE REQUIREMENTS

Pilots wishing to conduct hang glider operations in Class E airspace shall thoroughly understand the operational provisions of the CARs and Air Traffic Services and Procedures that are **appropriate to the operations of hang glider in accordance with flight under the Visual Flight Rules (VFR)**.

As well, they shall have a basic understanding of the remaining subjects in this guide, and the ability to apply these subjects practically where required.

WRITTEN EXAMINATION

Pilots wishing to conduct hang glider operations in Class E airspace shall demonstrate their knowledge by writing a Transport Canada examination consisting of 40 multiple-choice questions on the subjects contained in this guide.

| Examination | Questions | Time Limit | Pass Mark |
|---|-----------|------------|-----------|
| Class "E" Airspace (Hang Glider) Air Law and Procedures (HAGAR) | 40 | 2½ hours | 60% |

EXAMINATION RULES

CAR 400.02 (1)

1. Except as authorized by an invigilator, no person shall, or shall attempt to, in respect of a written examination,
 - a) copy or remove from any place all or any portion of the text of the examination;
 - b) give to or accept from any person a copy of all or any portion of the text of the examination;
 - c) give help to or accept help from any person during the examination;
 - d) complete all or any portion of the examination on behalf of any other person; or
 - e) use any aid or written material during the examination.
2. A person who commits an act prohibited under subsection (1) fails the examination and may not take any other examination for a period of one year.

REWRITING OF EXAMINATIONS

CAR 400.04 (1)

Subject to subsections (2) and (6), a person who fails an examination or a section of a sectionalized examination required for the issuance of a flight crew permit, licence, rating or foreign licence validation certificate is ineligible to rewrite the examination or the failed section for a period of

in the case of a first failure, 14 days;

in the case of a second failure, 30 days; and

in the case of a third or subsequent failure, 30 days plus an additional 30 days for each failure in excess of two failures, up to a maximum of 180 days.

EXAMINATION FEEDBACK

Feedback statements on the results letter will inform the candidate which questions were answered incorrectly.

Example of a Feedback Statement: Identify the atmospheric conditions favorable for thunderstorm formation.

SECTION 1 – AIR LAW AND PROCEDURES

CANADIAN AVIATION REGULATIONS (CARs)

Some *Canadian Aviation Regulations* (CARs) refer to their associated standards. Questions from the CARs may test knowledge from the regulation or the standard.

PART I – GENERAL PROVISIONS

101 – INTERPRETATION

101.01 Interpretation

103 – ADMINISTRATION AND COMPLIANCE

103.02 Inspection of Aircraft, Requests for Production of Documents and Prohibitions

103.03 Return of Canadian Aviation Documents

PART VI – GENERAL OPERATING AND FLIGHT RULES

600 – INTERPRETATION

600.01 Interpretation

601 – AIRSPACE STRUCTURE, CLASSIFICATION AND USE

601.01 Airspace Structure

601.02 Airspace Classification

601.04 IFR or VFR Flight in Class F Special Use Restricted Airspace or Class F Special Use Advisory Airspace

AIRCRAFT OPERATING RESTRICTIONS AND HAZARDS TO AVIATION SAFETY

601.14 Interpretation

601.15 Forest Fire Aircraft Operating Restrictions

602 – OPERATING AND FLIGHT RULES

GENERAL

602.01 Reckless or Negligent Operation of Aircraft

602.02 Fitness of Flight Crew Members

602.03 Alcohol or Drugs – Crew Members

602.04 Alcohol or Drugs – Passengers

602.05 Compliance with Instructions

602.12 Overflight of Built-up Areas or Open-Air Assemblies of Persons during Take-offs, Approaches and Landings

602.13 Take-offs, Approaches and Landings within Built-up Areas of Cities and Towns

602.14 Minimum Altitude and Distances

602.19 Right-of-Way – General

602.21 Avoidance of Collision

602.22 Towing

602.23 Dropping of Objects

- 602.24 Formation Flight
- 602.27 Aerobatic Manoeuvres – Prohibited Areas and Flight Conditions
- 602.29 Hang Glider and Ultra-light Aeroplane Operation
- 602.31 Compliance with Air Traffic Control Instructions and Clearances
- 602.34 Cruising Altitudes and Cruising Flight Levels
- 602.35 Altimeter-setting and Operating Procedures in the Altimeter-setting Region
- 602.36 Altimeter-setting and Operating Procedures in the Standard Pressure Region

FLIGHT PREPARATION, FLIGHT PLANS AND FLIGHT ITINERARIES

- 602.71 Pre-flight Information
- 602.72 Weather Information

OPERATIONS AT OR IN THE VICINITY OF AN AERODROME

- 602.96 General
- 602.97 VFR and IFR Aircraft Operations at Uncontrolled Aerodromes within a MF Area (Mandatory Frequency Area)
- 602.98 General MF Reporting Requirements
- 602.101 MF Reporting Procedures on Arrival
- 602.103 Reporting Procedures when Flying through an MF Area

VISUAL FLIGHT RULES

- 602.114 Minimum Visual Meteorological Conditions for VFR Flight in VFR Flight in Controlled Airspace
- 602.115 Minimum Visual Meteorological Conditions for VFR Flight in Uncontrolled Airspace

RADIOCOMMUNICATIONS

- 602.133 Language Used in Aeronautical Radiocommunications
- 602.136 Continuous Listening Watch

605 – AIRCRAFT REQUIREMENTS

AIRCRAFT EQUIPMENT REQUIREMENTS

- 605.31 Oxygen Equipment and Supply

AIR TRAFFIC CONTROL SERVICES AND PROCEDURES

- 1 Flight Service Stations (FSS) / Flight Information Centres (FIC) – Available Services
- 2 Clearances and Instructions
- 3 Communications Procedures
- 4 Airport/Aerodrome Operations- Controlled
- 5 Airport/Aerodrome Operations- Uncontrolled
- 6 Mandatory Frequencies
- 7 Aerodrome Traffic Frequencies
- 8 Low Level Controlled Airspace- Types, Dimensions, Flight Rules
- 9 Special Use Airspace

SECTION 2 – FLIGHT INSTRUMENTS

ALTIMETER

- 1 Basic Operating Principles
- 2 Setting and Use

MAGNETIC COMPASS

- 1 Use, Limitations and Faults
- 2 Reading the Compass
- 3 Checking Compass Heading on the Ground and in Flight

SECTION 3 – NAVIGATION

AERONAUTICAL CHARTS

- 1 Aeronautical Information Including the Location of Airports and Aerodromes, Class B, C, D and E Controlled Airspace, Class F Special Use Airspace and Class G Uncontrolled Airspace
- 2 Topographical Symbol
- 3 Elevation and Contour
- 4 Scale and Units of Measurement
- 5 Locating Position by Latitude and Longitude
- 6 True and Magnetic Heading

PRE-FLIGHT PREPARATION

- 1 NOTAM for Planned Route
- 2 VFR Weather requirements for Planned Route

SECTION 4 – FLIGHT OPERATIONS

AIRMANSHIP (TC AIM – AIR 2.9)

- 1 Wake Turbulence, Causes, Effects and Avoidance

SECTION 5 – HUMAN FACTORS

AVIATION PHYSIOLOGY

- 1 Vision and Visual Scanning
- 2 Hypoxia/Hyperventilation
- 3 Decompression Sickness

THE PILOT AND THE OPERATING ENVIRONMENT

- 1 Medications (Prescribed, Over-the-Counter)
- 2 Substance Abuse
- 3 Effects of Heat/Cold
- 4 Effects of Smoking

AVIATION PSYCHOLOGY

- 1 The Decision-Making Process
- 2 Factors that influence Decision-Making
- 3 Managing Risk
- 4 Hazardous Attitudes and their Antidote

RECOMMENDED STUDY MATERIAL

- Pilot Decision-Making (TP 8940E)
- Canada's Airspace Poster (TP 6010)
- Aeronautical Information Manual (TC AIM) (TP 14371E)
- *Canadian Aviation Regulations* (CARs)
- The Pilot's Guide to Human Factors
- VFR Navigation Charts (VNC)/VFR Terminal Area Charts (VTA)
- Canada Flight Supplement (CFS)

The Study Guide for the Radiotelephone Operator's Restricted Certificate (Aeronautical) is available free of charge from district offices of Industry Canada - Examinations and Radio Licensing (<http://www.strategis.gc.ca/>).

Information on textbooks and other publications produced by commercial publishers can be obtained through local flying training organization, bookstores and similar sources.

Publications used in pilot training in the United States are available through the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402 (<http://www.access.gpo.gov/index.html>).

ENQUIRIES

Information concerning the location of pilot training organizations and matters pertaining to flight crew licensing may be obtained by contacting the appropriate Regional Offices. A complete listing may be found at: <http://www.tc.gc.ca/CivilAviation/General/Exams/Centres.htm>