



Instrument Ground School Syllabus
And session agenda

This course is designed to prepare you for the Instrument Rating, Airplane Knowledge test. It will be approximately 27 hours of classroom instruction, including one stage test and one final exam. There will be homework assigned for each session, and completion of it will dramatically increase your odds of success on the final test, and therefore the FAA written exam.

Session one

Introductions

Pass out material

Explain course

Part I - Discovering Horizons

Chapter 1 - Building Professional Experience

A - Inst/Comm Training Ops

B - Advanced Human Factors

Chapter 2 - Principles of Instrument Flight

A - Flight Instruments

B - Attitude Instrument Flying

Homework

Summary checklist and Key Terms - Pg 1-27, 1-28, & 1-29

Summary checklist and Key Terms - Pg 2-25, 2-26

Questions - Pg 2-26 & pg 2-27

Summary checklist and Key Terms -Pg 2-56 & 2-57

Questions - Pg 2-58 & 2-59

Session 2

Review homework

Part I - Discovering Horizons, continued

Chapter 2, Section C - Instrument Navigation

Chapter 3 - The Flight Environment

Section A - Airports, Airspace, & Flight Information

Section B - ATC

Section C - ATC Clearances

Homework

Summary checklist and Key Terms - Pg 2-86 & 2-87

Questions - Pg 2-87 - 2-89

Summary checklist and Key Terms - Pg 3-34 - 3-7

Questions - Pg 3-38 - 3-40

Summary checklist and Key Terms - Pg 3-51 & 3-52

Questions - Pg 3-52 & 3-53

Summary checklist and Key Terms - Pg 3-69 & 3-70

Questions - Pg 3-70 - 3-72

Session 3

Review homework

Part II - Instrument charts and Procedures

Chapter 4 - Departure

Section A - Departure Charts

Section B - Departure Procedures

Chapter 5 - Enroute

Section A - Enroute and Area Charts

Section B - Enroute Procedures

Section C - Holding Procedures

Homework

Summary checklist and Key Terms - Pg 4-10 & 4-11

Questions - Pg 4-11 & 4-12

Summary checklist and Key Terms - Pg 4-22

Questions - Pg 4-23 & 4-24

Summary checklist and Key Terms - Pg 5-20 & 5-21

Questions - Pg 5-21 - 5-23

Summary checklist and Key Terms - Pg 5-35 & 5-36

Questions - Pg 5-37 & 5-38

Summary checklist and Key Terms - Pg 5-50 & 5-51

Questions - Pg 5-51 & 5-52

Session 4

Review homework

Part II - Instrument charts and Procedures - continued

Chapter 6 - Arrival

Section A - Arrival Charts

Section B - Arrival Procedures

Chapter 7 - Approach

Section A - Approach Charts

Homework

Summary checklist and Key Terms - Pg 6-7

Questions - Pg 6-8

Summary checklist and Key Terms - Pg 6-14 & 6-15

Questions - Pg 6-15

Summary checklist and Key Terms - Pg 7-34 - 7-38

Questions - Pg 7-38 -7-43

Session 5

Review homework

Part II - Instrument charts and Procedures - continued

Chapter 7 - Approach Procedures

Section B - Approach Procedures

Chapter 8 - Instrument Approaches

Section A - VOR & NDB Approaches

Section B - ILS Approaches

Section C - RNAV Approaches

Homework

Summary checklist and Key Terms - Pg 7-66 - 7-68

Questions - Pg 7-69 & 7-70

Summary checklist and Key Terms - Pg 8-18

Questions - Pg 8-19 - 8-21

Summary checklist and Key Terms - Pg 8-49 - 8-51

Questions - Pg 8-51 - 8-54

Summary checklist and Key Terms - Pg 8-77 - 8-79

Questions - Pg 8-7 - 8-81

Session 6

Review Homework

Mid Term Exam

Part III Aviation Weather and IFR Flight Operations

Chapter 9 - Meteorology

Section A - Weather Factors

Section B - Weather Hazards

Section C - Printed Reports and Forecasts

Section D - Graphic Weather Products

Section E - Sources of Weather Information

Homework

Summary checklist and Key Terms - Pg 9-25 - 9-27

Questions - Pg 9-27 & 9-28

Summary checklist and Key Terms - Pg 9-53 - 9-55

Questions - Pg 9-55 - 9-57

Session 7

Review Homework

Part III Aviation Weather and IFR Flight Operations - continued

Chapter 9 - Meteorology

Section C - Printed Reports and Forecasts

Section D - Graphic Weather Products

Section E - Sources of Weather Information

Homework

Summary checklist and Key Terms - Pg 9-77 & 9-78

Questions - Pg 9-78 & 9-79

Summary checklist and Key Terms - Pg 9-98 - 9-100

Questions - Pg 9-100 - 9-103

Summary checklist and Key Terms - Pg 9-117 & 9-118

Questions - Pg 9-118 - 9-120

Session 8

Review homework

Part III Aviation Weather and IFR Flight Operations - continued

Chapter 10 - IFR Flight Considerations

Section A - IFR Emergencies

Section B - IFR Decision Making

Section C - IFR Flight Planning

Homework

Summary checklist and Key Terms - Pg 10-12 & 10-13

Questions - Pg 10-13 & 10-14

Summary checklist and Key Terms - Pg 10-33 & 10-34

Questions - Pg 10-35

Summary checklist and Key Terms - Pg 10-55 & 10-56

Questions - Pg 10-56

Session 9

Review Homework

Final

Sign written test permission slips.