

3. identify hazardous weather situations and apply principles learned to avoid them.
4. evaluate and justify selection of routes for instrument flight.

CONTENT IN TERMS OF SPECIFIC BODY OF KNOWLEDGE:

The following material is required by the Federal Aviation Administration for certification as an instrument pilot:

- I. Flight Maneuvers (Instrument Referenced)
 - A. Straight and Level
 - B. Constant Airspeed Climbs and Descents
 - C. Constant Rate Climbs and Descents
 - D. Standard Rate Turns
 - E. Steep Bank Turns
 - F. Approach Stalls
 - G. Departure Stalls
 - H. Slow Flight and Minimum Controllable Airspeed
 - I. Recovery From Unusual Attitudes
 - J. Compass Turns
 - K. Timed Turns
 - L. "Partial Panel" Operations
- II. Navigation Procedures
 - A. VOR and NDB Tracking and Orientation
 - B. VOR and NDB Holding Patterns
 - C. Holding on A Localizer
 - D. Finding Intersections
 - E. Area Departures
 - F. Enroute Navigation
- III. Arrival Procedures
 - A. VOR Approaches and Missed Approaches
 - B. NDB Approaches and Missed Approaches
 - C. LOC Approaches and Missed Approaches
 - D. ILS Approaches and Missed Approaches

REQUIRED READING:

As required by student's FAA certified flight instructor and the student's chosen flight school. Typical readings include:

Kershner, William. Instrument Pilot Flight Manual. Aims, IA: Iowa State University Press, 2000.

Federal Aviation Administration. Instrument Flying Handbook. Washington, D.C.: United States Government Printing Office, 1981.

Cessna Aircraft Co. Cessna Pilot Center Flight Training Materials. Wichita, KN: Cessna Aircraft Co., 1999.

SUGGESTED READING: None.

REQUIRED WRITING:

None. This certificate requires demonstration of skills as outlined under "Content in terms of specific body of knowledge."

OUTSIDE ASSIGNMENTS:

As assigned by the student's flight instructor from the required readings.

Students are expected to spend a minimum of three hours per unit per week in class and on outside assignments, prorated for short-term classes.

INSTRUCTIONAL METHODOLOGY:

Check all that apply:

- lecture
- laboratory
- lecture-laboratory combination
- directed study

This course may be offered as a distance learning course and meets Title 5 regulations 55370, 55372, 55374, 55376, 55378, and 55380.

Yes No

If yes, check all that apply.

- Television Course (Video one-way, e.g. ITV, video cassette, etc.)
- Online Course (Text one-way, e.g. newspaper, correspondence, electronic file, etc.)
- Two-Way Video Conferencing (Two-way interactive video and audio)
- One-Way Video Conferencing (One-way interactive video and two-way interactive audio)
- Computer Assisted Instruction (A specialized form of mediated instruction relying primarily on student access to information and prepared lessons or teaching materials through a computer terminal, but not under immediate supervision of a qualified instructor.)

GRADING POLICY AND STANDARDS (include methods of determining whether the stated objectives have been met by students):

Credit will be given upon presentation of the instrument rating certificate.

IS COURSE REPEATABLE FOR REASON(S) OTHER THAN DEFICIENT GRADE?

Yes No Number of times course may be taken for credit: 1

If yes, identify specific provision of Title 5 Division 2 section(s), 55761-55763 and 58161 which qualifies course as repeatable:

CONTACT PERSON:

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SIGNATURES:

SIGNATURES ON FILE

