

**APPLICATION FOR ACCEPTANCE OF A
DEPARTMENTAL POLICY FOR EQUIVALENCY**

From (Chair): David Richey

Date: 5-24-2018

Department: Industrial Technology

Extension: x3318

Discipline(s): Aviation (Flight Science)

I. TENURED FACULTY SIGNATURE(S)

Signature of the Tenured Faculty Who Determined that the Proposed Policy Should Satisfy the Equivalency Requirements:

Printed Name: DAVID RICHEY

Signature: David Richey Date: 5/25/18

(If tenured faculty member in the discipline is not available, a tenured faculty member from a "related discipline", as defined in the Minimum Qualifications for Faculty and Administrators in California Community Colleges handbook, may sign after consulting with the non-tenured faculty.)

A majority of faculty from the discipline or related disciplines is required to sign in support below. .

Printed Name: JASON D. ASMAN

Signature: [Signature] Date: 5/29/18
Support: Oppose:

Printed Name: John Johnson

Signature: [Signature] Date: 5-30-18
Support: Oppose:

Printed Name: _____

Signature: _____ Date: _____
Support: _____ Oppose: _____

Printed Name: _____

Signature: _____ Date: _____
Support: _____ Oppose: _____

DEPARTMENT CHAIR OR DIVISION REPRESENTATIVE SIGNATURE

Printed Name: David Richey

Signature:  Date: 5/25/18

Do any of the colleges in the district offer a comparable program? Yes No
If so, which colleges: _____

If applicable, have RC Faculty reviewed this departmental policy with the appropriate faculty at the other colleges offering a comparable program? Yes No
If so, which instructors: N/A

(Faculty from other colleges may include a statement of support or non-support).

DEAN OF INSTRUCTION/STUDENT SERVICES SIGNATURE

Printed Name: David Clark

Signature:  Date: 6/1/18

I. Statement of minimum qualifications as defined in the *Minimum Qualifications for Faculty and Administrators in California Community Colleges* handbook:

Any bachelor's degree or higher and two years of professional experience, or any associate degree and six years of professional experience. Professional experience is required when the applicant possesses a master's degree. The professional experience required must be directly related to the faculty member's teaching assignment.

II. Recommended Departmental Policy for an *Equivalency*:

The Industrial Technology Department is requesting a Departmental Policy for Equivalency be approved for the Flight Science discipline. This policy shall authorize Flight Science courses to be taught by applicants possessing only a valid Federal Aviation Administration Flight Instructor Certificate.

III. Please provide an explanation that justifies this policy if different than state minimum qualifications:

The industry standard in the United States for a person to perform flight instruction to students is for the flight instructor to be a Federal Aviation Administration Certified Flight Instructor. This federal certificate authorizes instructors to perform in-flight instruction and ground (academic) instruction to students earning pilot certificates.

To become a Federal Aviation Administration Certified Flight Instructor, an individual must earn the following FAA Pilot certificates:

1. Private Pilot Certificate
2. Instrument Rating Certificate
3. Commercial Pilot Certificate
4. Certified Flight Instructor Certificate

During the course of training for the above certificates, over 2,000 hours of classroom time, flying time and flight preparation is accomplished. A total of five FAA written tests, four oral exams, and four in-flight exams must be taken and passed. For the Flight Instructor certificate, there is specific training on the Fundamentals of Instruction, a written test, oral exam, and in-flight tests *used solely to determine the candidate's ability to teach students within the Flight Science discipline.*

Yavapai College in Arizona, Baton Rouge Community College in Louisiana, and Embry-Riddle Aeronautical University in Florida are only a few examples where Federal Aviation Administration Certified Flight Instructors are hired to teach as instructors in Flight Science programs as long as they possess the Federal Aviation Administration required training and testing. This is done because a Federal Aviation Administration Certified Flight Instructor has met the industry standard at the federal level and has been specifically trained for this one specific type of instruction.

APPROVED BY EQUIVALENCY COMMITTEE 8/18/17; RCAS 10/10/17; College Council 10/18/17

The California Minimum Qualifications for Faculty and Administrators in California Community Colleges Handbook requirements for the Flight Science discipline do not mandate applicants to have any training as an instructor or as a flight instructor. In fact, an applicant can be immediately credentialed with any bachelor degree and only two years professional experience. The four year degree could be in basket weaving and the two years of experience could just be flying around with no requirement to have experienced or demonstrated *any* learning outcomes. These California state minimum requirements actually authorize Reedley College to employ instructors who are actually not federally qualified to teach the subject. This is akin to saying that an automobile driving instructor at Reedley College can be credentialed if they have any A.S. degree and were an Uber driver for 6 years with no training supervision, or professional standards to adhere to. This hiring can be done within the “minimum qualifications.” However, just driving around for years does not mean this applicant understands the rules of the road or has any skill to teach students how to drive competently and safely, yet this circumstance would meet state requirements to be hired.

All Federal Aviation Administration certified Flight Instructors must undergo specific and mandatory training on the knowledge, specific flight maneuvers, and safety practices of commercial pilots, and most importantly, they must have also accomplished education, training, and specific evaluation on the applicant’s ability to instruct flying subjects on the ground and in the air.

In addition to all the aeronautical knowledge and in-flight skill sets required of a commercial pilot, during the Federal Aviation Administration Oral/Practical test to become a Certified Flight Instructor, the applicant must demonstrate the knowledge and the skill sets *of an effective instructor*. Here are some excerpts from the Federal Aviation Administration document which outlines what *must be evaluated* during the oral and practical (flying) test:

The applicant must *demonstrate* (orally and in-flight) the following instructor skills

- Fundamentals of Instructing
- Human Behavior and Effective Communication
- The Learning Process
- The Teaching Process
- Assessment and Critique
- Instructor Responsibilities and Professionalism
- Techniques of Flight Instruction
- Risk Management

The Objective of a Task that involves pilot skill consists of four parts. The four parts include determination that the applicant exhibits:

1. Instructional knowledge of the elements of a Task (accomplished through descriptions, explanations, and simulated instruction).
2. Instructional knowledge of common errors related to a Task, including their recognition, analysis, and correction.
3. The ability to demonstrate and simultaneously explain the key elements of a Task at the Commercial Pilot skill level.

4. The ability to analyze and correct common errors related to a Task.

Flight Instructor Responsibility

[The Certified] Flight Instructor is responsible for training the flight instructor applicant to acceptable standards in all subject matter areas, procedures, and maneuvers included in the Tasks within each Area of Operation in the appropriate flight instructor practical test standard.

Because of the impact of their teaching activities in developing safe, proficient pilots, flight instructors should exhibit a high level of knowledge, skill, and the ability to impart that knowledge and skill to students. The flight instructor must certify that the applicant is:

1. Able to make a practical application of the fundamentals of instructing;
2. Competent to teach the subject matter, procedures, and maneuvers included in the standards to students with varying backgrounds and levels of experience and ability;
3. Able to perform the procedures and maneuvers included in the standards to at least the Commercial Pilot skill level while giving effective flight instruction; and
4. Competent to pass the required practical test for the issuance of the flight instructor certificate with the associated category and class ratings or the addition of a category and/or class rating to a flight instructor certificate.

Satisfactory Performance

The practical test [for the Certified Flight Instructor] is passed if, in the judgment of the examiner, the applicant demonstrates satisfactory performance with regard to:

1. Knowledge of the fundamentals of instructing;
2. Knowledge of the technical subject areas;
3. Knowledge of the flight instructor's responsibilities concerning the pilot certification process;
4. Knowledge of the flight instructor's responsibilities concerning logbook entries and pilot certificate endorsements;
5. Knowledge of the flight instructor's responsibilities conveying to the applicant runway incursion mitigation techniques and procedures.
6. Ability to demonstrate the procedures and maneuvers selected by the examiner to at least the Commercial Pilot skill level while giving effective instruction;
7. Competence in teaching the procedures and maneuvers selected by the examiner;
8. Competence in describing, recognizing, analyzing, and correcting common errors simulated by the examiner; and
9. Knowledge of the development and effective use of a course of training, a syllabus, and a lesson plan.

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Holding an FAA Certified Flight Instructor certificate is equivalent to the applicable minimum standards for a laboratory instructor in the Flight Science discipline.

ACTION OF THE REEDLEY COLLEGE ACADEMIC SENATE COMMITTEE ON EQUIVALENCY

The Department Policy is: approved: ✓ denied: _____

Signature of Equivalency Committee Chair (*or designee*): Joni Enzy

Date: August 10, 2018

Comments: _____
