Program Outcome Assessment Report

Aviation Management

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Program Outcome Assessment Report
Aviation Sciences Institute
Department of Aviation Management
2008-2009 Academic Year

A. Degree Program: Bachelor of Science - Aviation Management

B. Author: Stanley J. Alluisi, Chair, Department of Aviation Management

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C. Mission Statement & Goals:

Departmental Mission Statement

The primary mission of the Aviation Sciences Institute is to provide its students with the highest quality aviation education and flight training possible. The fundamental belief being that the best trained students will be the safest and most successful aviation professionals. The Aviation Sciences Institute will strive to excel as a world leader in Aviation Education. To that end, the Aviation Sciences Institute will provide the student with the most current information, technology, and personalized training available in the aviation profession.

Program Goals and Objectives:

1. To recognize the flight environment, ground or air, in which the aircraft can be safely operated with the ability to analyze trends that can adversely affect safe operations.

2. To establish a working knowledge of rules and regulations governing the operation of aircraft. The student will recognize and have the knowledge and skill to locate and research specific regulations that affect the safety and legality of both flight and ground operations.

3. To cultivate the sound technical and managerial skills associated with the aviation industry. The student will be able to efficiently manage both people and equipment and will possess the competence to identify conditions that are unsafe and act to rectify the unsafe condition.

4. To develop and cultivate managerial and business skills. The student will possess the basic skills and recognize the expertise required in the aviation industry.

5. To develop the sound written and effective oral communication skills necessary in the aviation environment. The student will be able to communicate competently using oral, written and other visual media.
D. Learning Outcomes:

1. a. Learning Outcome 1: *The ability to efficiently manage both people, programs and equipment.*
   b. Number of students assessed: 9 individual students assessed four different times each.
   Selection: All management students in AVIA 3133 Aviation Administration class.
   Makeup of the sample: Entire population (n=9).
   Work evaluated: All class examinations.
   How was assessment conducted: Four examinations were conducted during semester.
   Data from assessment: 32 of 36 exam scores (89%) scored 70% or higher.
   c. Results of the assessment:
      Aggregate scores: 32 exam scores were \( \geq 70\% \), 4 exam scores were \(< 70\% \)
      Describe results: 32 of 36 exam scores (89%) scored 70% or higher.

2. Analysis and Interpretation:
   a. Interpret results re: expected learning outcome: Students met expectations.
   b. Compare current year with past 5 years:
      2006-07: \( 85\% \)
      2007-08: \( 88\% \)
      2008-09: \( 89\% \)

3. Program Modification: None

1. a. Learning Outcome 2: *The ability to make sound decisions in the aerospace industry using a logical scientific approach.*
   b. Number of students assessed: 9 individual students assessed five different times each.
   Selection: All management students in AVIA 3133 Aviation Administration class.
   Makeup of the sample: Entire population (n=9).
   Work evaluated: Class examinations & class quizzes.
   How was assessment conducted: Four examinations were conducted during semester and five quizzes were conducted throughout the semester.
   Data from assessment: 39 of 45 students (89%) scored 70% or higher.
   c. Results of the assessment:
      Aggregate scores: 32 of 36 exam scores (89%) scored 70% or higher on the four exams.
      \( 39 \) of \( 45 \) quiz scores (87%) scored 70% or higher the five quizzes.
      Describe results: \( 71 \) of \( 81 \) exam & quiz scores (88%) were 70% or higher.

2. Analysis and Interpretation:
   a. Interpret results re: expected learning outcome: Students met expectations.
   b. Compare current year with past 5 years:
      2006-07: \( 90\% \)
      2007-08: \( 85\% \)
      2008-09: \( 88\% \)
3. Program Modification: None

1. a. Learning Outcome 3:

   To develop a working knowledge of safety systems and programs dedicated to the facilitation of increased safety on the ground and in the air.

b. Number of students assessed: Five individual students assessed.
   Selection: All management students in AVIA 3173 Aviation Safety class.
   Makeup of the sample: Entire population (n=5)
   Work evaluated: Class grade
   How was assessment conducted: Final grade for the course
   Data from assessment: Four of the five students (80%) scored 70% or higher

c. Results of the assessment:
   Aggregate scores: Four students scored $\geq 70\%$, One student scored $< 70\%$
   Describe results: Four of five students (80%) scored 70% or higher

2. Analysis and Interpretation

   a. Interpret results re: expected learning outcome: Students met expectations.
      Note: we have used AVIA 3173 Aviation Safety to assess this outcome for the past two years. Again, only five Aviation Management students took the class this cycle and only four Aviation Management students took this class two years ago. Previously, 19 students were assessed using different measures two cycles ago.

   b. Compare current year with past 5 years
      2006-07: 85%
      2007-08: 75%
      2008-09: 80%

3. Program Modification: None

1. a. Learning Outcome 4:

   An understanding of the major issues and economic considerations affecting the aerospace industry in the United States and worldwide.

b. Number of students assessed: 4 Aviation Management students assessed once each.
   Selection: All Aviation Management students in AVIA 4163 Contemporary Topics class.
   Makeup of sample: Entire population (n=4).
   Work evaluated: Formal audiovisual presentation on a current issue facing the industry.
   How was assessment conducted: Formal presentation evaluated.
   Data from assessment: All four of the six students (100%) scored 70% or higher

c. Results of the assessment:
   Aggregate scores: All four Management students scored $\geq 70\%$
   Describe results: Six of the six students (100%) scored 70% or higher
2. Analysis and Interpretation
   a. Interpret results re: expected learning outcome: Students met expectations.
   b. Compare current year with past 5 years
      - 2006-07: 80%
      - 2007-08: 100%
      - 2008-09: 100%

3. Program Modification: None

1. a. Learning Outcome 5:
   - Acquire the proper accident site management techniques and generate reports as
     needed by the various local, state, and federal agencies.
   b. Number of students assessed: Five individual students assessed.
      Selection: All management students in AVIA 3173 Aviation Safety class.
      Makeup of the sample: Entire population (n=5)
      Work evaluated: Class grade
      How was assessment conducted: Final grade for the course
      Data from assessment: Four of the five students (80%) scored 70% or higher
   c. Results of the assessment:
      Aggregate scores: Four students scored ≥ 70%, One student scored < 70%
      Describe results: Four of five students (80%) scored 70% or higher

2. Analysis and Interpretation
   a. Interpret results re: expected learning outcome: Students met expectations.
      Note: we have now used AVIA 3173 Aviation Safety to assess this outcome for
      two years. Also, once again only five Aviation Management students took this
      class during the period.
   b. Compare current year with past 5 years
      - 2006-07: Not assessed
      - 2007-08: 75%
      - 2008-09: 80%

3. Program Modification: The Aviation Management faculty had discussed adding some
   accident site management content in Aviation Administration, Aviation Management
   and/or Aviation Legal Problems to reinforce the importance of this material. However,
   due to impending changes toward a more formal outcomes based assessment model due to
   changes mandated by our accrediting body (Aviation Accreditation Board International)
   assessment for this and all other courses will change over the next year or two.
1. a. Learning Outcome 6:  
*Develop knowledge of the legal and moral concepts that influence developments in national and international law.*

b. Number of students assessed: Eight students total, five in AVIA 3113 Aviation Legal Problems and three in BLAW 3123.  
Selection: All Aviation Management students in two sections of AVIA 3113 and one of BLAW 3123.  
Makeup of sample: Entire population (n=8)  
Work evaluated: Final grades.  
How was assessment conducted: Final grades.  
Data from assessment: All eight students (100%) scored 70% or greater.

c. Results of the assessment  
Aggregate scores: All eight students (100%) scored 70% or greater  
Describe results: 8 of 8 earned final grades representing 70% or higher.

2. Analysis and Interpretation  
a. Interpret results re: expected learning outcome: Students met expectations.  
b. Compare current year with past 5 years  
   2006-07: 86%  
   2007-08: 75%  
   2008-09: 100%

3. Program Modification: None

1. a. Learning Outcome 7:  
*To expand the fundamental skills of the aviation management student pertaining to business, safety, security and maintenance areas. The student will recognize and respond to basic management situations typically confronted when dealing with the various areas of aviation management.*

b. Number of students assessed: 9 individual students assessed five different times each.  
Selection: All Management students in AVIA 3133 Aviation Administration class.  
Makeup of the sample: Entire population (n=9).  
Work evaluated: Class examinations.  
How was assessment conducted: Four examinations were conducted during semester.  
Data from assessment: 32 of 36 students (89%) scored 70% or higher.

c. Results of the assessment:  
Aggregate scores: 32 of 36 exam scores (89%) scored 70% or higher on the four exams.  
Describe results: 32 of 36 exam (89%) were 70% or higher.
2. Analysis and Interpretation
   a. Interpret results re: expected learning outcome: Students met expectations.
   b. Compare current year with past 5 years
      2006-07: 67%
      2007-08: 90%
      2008-09: 89%

3. Program Modification: None.

E. Modifications: Two summers ago, pursuant to a requirement by the Aviation Accreditation Board International (AABI), our accrediting body, the Aviation Management program was modified in order to provide a “culminating upper division experience.” This culminating upper division experience has been implemented through the requirement for students to either participate in an internship or engage in a semester-long project during AVIA 4663.

   As was mentioned earlier in this report, the Aviation Management faculty had discussed adding some accident site management content in Aviation Administration, Aviation Management and/or Aviation Legal Problems to reinforce the importance of this material. However, due to impending changes toward a more formal outcomes based assessment model due to changes mandated by our accrediting body (Aviation Accreditation Board International) assessment for this and all other courses will change over the next year or two.

F. Web/IETV: None taught.

G. Faculty Contributions: The entire Aviation Management faculty on the SOSU main campus contributed to this report. Unfortunately, the entire faculty consists of just me. Due to the changing requirements mandated by AABI the faculty here on campus, in close coordination with our full-time and adjunct faculty at OCCC and Tinker AFB, will be working over the next academic year to modify our assessment tools in order to meet AABI’s new criteria. Stay tuned.