Program Outcome Assessment Report

Aviation Management

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

Faculty:
Dr. Stanley J. Alluisi

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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: Eleven individual students assessed four different times each.
      Selection: All management students in AVIA 3133 Aviation Administration class.
      Makeup of the sample: Entire population (n=11).
      Work evaluated: All class examinations.
      How was assessment conducted: Three examinations were conducted during semester as.
      Data from assessment: 30 of 33 exam scores (91%) scored 70% or higher.
   c. Results of the assessment:
      Aggregate scores: 30 exam scores were $\geq 70\%$, 3 exam scores were $< 70\%$
      Describe results: 30 of 33 exam scores (91%) 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%
      2009-10: 90%
      2010-11: 91%

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: 11 individual students assessed nine different times each.
      Selection: All management students in AVIA 3133 Aviation Administration class.
      Makeup of the sample: Entire population (n=11).
      Work evaluated: Class examinations & class quizzes.
      How was assessment conducted: Three examinations and six quizzes were conducted during the throughout the semester.
      Data from assessment: 81 of 99 students exam & quiz scores (82%) were 70% or higher.
   c. Results of the assessment:
      Aggregate scores: 30 of 33 exam scores (91%) scored 70% or higher on the four exams.
      51 of 66 quiz scores (77%) scored 70% or higher the five quizzes.
      Describe results: 81 of 99 exam & quiz scores (82%) 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%
      - 2009-10: 80%
      - 2010-11: 82%

3. Program Modification: None

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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 ($n = 6$).
      Work evaluated: Class exercises and three exams.
      How was assessment conducted: two safety article assignments, one SMS report assignment and three exams were evaluated.
      Data from assessment: All six of the students (100%) scored 70% or higher on all assignments.

   c. Results of the assessment:
      Aggregate scores: All six students scored $\geq 70\%$.
      Describe results: All 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: 85%
      - 2007-08: 75%
      - 2008-09: 80%
      - 2009-10: 
      - 2010-11: 100%

3. Program Modification: None

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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: Eight Aviation Management students assessed once each.
      Selection: All Aviation Management students in AVIA 4163 Contemporary Topics class.
      Makeup of sample: Entire population ($n = 8$).
      Work evaluated: Formal audio-visual presentation on a current issue facing the industry.
How was assessment conducted: Formal presentation presented to class and evaluated. Data from assessment: All eight of the students (100%) scored 70% or higher

c. Results of the assessment:
Aggregate scores: All eight Management students scored ≥ 70%
Describe results: Eight of the eight students (100%) scored 70% or higher

2. Analysis and Interpretation
   a. Interpret results re: expected learning outcome: Students continue to mee expectations.
   b. Compare current year with past 5 years
      2006-07: 80%
      2007-08: 100%
      2008-09: 100%
      2009-10: 100%
      2010-11: 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: Six individual students assessed on 18 measures. Selection: All management students in AVIA 3173 Aviation Safety class. Makeup of the sample: Entire population (n = 6). Work evaluated: Safety Article and SMS report assignments. How was assessment conducted: Grades for three class assignments (two safety article and SMS report assignments) were evaluated for each student. Data from assessment: Sixteen of the eighteen assignments (89%) scored 70% or higher.
   c. Results of the assessment:
   Aggregate scores: Sixteen of the scores were ≥ 70%, One student twice scored < 70%
   Describe results: Sixteen of the eighteen assignments (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: Not assessed
      2007-08: 75%
      2008-09: 80%
      2009-10: 100%
      2010-11: 89%

3. Program Modification: None.
1. Learning Outcome 6:

*Develop knowledge of the legal and moral concepts that influence developments in national and international law.*

b. Number of students assessed: Four students in AVIA 3113 Aviation Legal Problems.
Selection: All Aviation Management students in AVIA 3113.
Makeup of sample: Entire population (n = 4).
Work evaluated: Three exams and one term paper.
How was assessment conducted: The three major exams and one term paper.
Data from assessment: All four students (100%) scored 70% or greater on all four measures.

c. Results of the assessment

Aggregate scores: All four students (100%) scored 70% or greater on all three exams and the term paper.
Describe results: four of four earned 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%
2009-10: 83%
2010-11: 100%

3. Program Modification: None

1. 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: Eleven individual students were assessed four times each.
Selection: All Management students in AVIA 3133 Aviation Administration class.
Makeup of the sample: Entire population (n =11).
Work evaluated: Three class examinations and one term paper.
How was assessment conducted: Four exams and one paper were graded during the semester.
Data from assessment: 36 of 44 student scores (82%) were 70% or higher.

c. Results of the assessment:

Aggregate scores: 36 of 44 exam scores (82%) scored 70% or higher on the four exams.
Describe results: 36 of 44 exam & paper scores (82%) 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%
      2009-10:  80%
      2010-11:  82%

3. Program Modification: None.

E. Modifications: Three 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” for aviation management majors. 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.

This year, again due to changes in AABI accreditation rules, we added AVIA 1004 Private Ground into the Aviation Management degree plan.

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 still just consists of me.