



BROWARD COLLEGE COURSE OUTLINE

LAST REVIEW: 2007-2008
(2008-2009)

NEXT REVIEW: 2013-2014
(2013-2014)

STATUS: A
(A.)

COURSE TITLE: Airport/Airline Security

COMMON COURSE NUMBER: AVM 1440

CREDIT HOURS: 3

CONTACT HOUR BREAKDOWN

(per 16 week term)

CLOCK HOURS:
(Voc. Course ONLY)

Lecture: 48 Lab:

Clinic: Other:

PREREQUISITE(S): None

COREQUISITE(S): None

PRE/COREQUISITE(S):

COURSE DESCRIPTION:

An introduction and analysis of the regulations and laws governing airport and airline security, including an in-depth look at Federal Aviation Regulations 49 CFR 1544, FAR Part 121, 129, and 49 CFR 1520; Topics of discussion include: a historical perspective and events that have led to the evolution of aviation security, preventive measures, and current trends in security. An introduction to terrorist activities, motives, weapons of mass destruction, and countermeasures at threats to aviation.

UNIT TITLES

1. Overview/History/49 CFR 1520
2. 49 CFR 1542 / Role of the Airport Operator
3. 49 CFR 1544 / Role of the Air Carrier
4. FAR Part 121 and 129
5. Airport Security Plans
6. Current Trends in Aviation Security
7. Weapons of Mass Destruction
8. The TSA Perspective

EVALUATION:

Student will be assessed regarding course learning outcomes through evaluative quizzing and exams and/or presentation research project.

UNITS**Unit 1 Overview / History / 49 CFR 1520****General Outcome:**

1.0 The student shall, upon successful completion of this course, should be able to understand the historical reasons for the development of aviation security including past incidents that have helped the evolution of security. Understand and identify 49 CFR 1542 / 49 CFR 1544 and the differences, including areas of responsibility. Students should understand current issues pertaining to aviation security and steps taken to reduce the possibility of acts against the industry, while identifying the need for regulations and enforcement criteria.

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

1.1 Describe security evolution and the importance of maintaining security in aviation.

1.2 Identify past incidents such as Pan Am 103, PSA 1771, LaGuardia Airport bombing in 1972.

1.3 Discuss the importance of the protection of sensitive security information and non-disclosure of information

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Unit 2 49 CFR 1542 / The Role of the Airport Operator

General Outcome:

2.0 The student shall be able to provide information pertaining specifically to the regulation and what steps are required of airport operators, the importance of compliance, maintaining compliance, and ramifications of non-compliance.

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 2.1** Identify the need for 49 CFR 1542 and understand the regulation.
- 2.2** Identify secured areas on certificated airports and understand the importance of access control.
- 2.3** Identify the role of the airport operator in complying with security regulations.
- 2.4** Identify the role of law enforcement in airport security.
- 2.5** Categorize the relationship between airports, their tenants (leaseholds) and airport security.
- 2.6** Describe what an Airport Security Coordinator (ASC) is and what the role of the ASC is.
- 2.7** Identify the maintenance of security requirements.
- 2.8** Define air piracy, sabotage, and biological hazards.
- 2.9** Explain enforcement techniques available to airport operators.
- 2.10** Identify non-compliance and the potential for disaster.

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Unit 3 49 CFR 1544

General Outcome:

- 3.0 Student shall** be able to identify the requirements of certificated air carriers and the responsibilities assumed under 49 CFR 1544.

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 3.1 Identify the need for 49 CFR 1544 and understand the requirements under the regulation.
- 3.2 Discuss the history behind screening checkpoints.
- 3.3 Describe the responsibilities of the air carrier Ground Security Coordinator (GSC).
- 3.4 Identify the consequences of non-compliance.
- 3.5 Explain how the airline and airport security interact.
- 3.6 Identify the enforcement actions available to airlines.
- 3.7 Identify the role of the International Civil Aviation Organization (ICAO) in civil aviation security.
- 3.8 Describe the role of law enforcement in air carrier security (TSA, FBI).

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Unit 4 FAR Part 121 and 129

General Outcome:

- 4.0** The student shall be able to better understand how FAR 121 and 129 compliance pertains to domestic and international air carrier security.

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 4.1** Explain how FAR Part 121 pertains to air carrier security.
- 4.2** Describe how FAR Part 129 pertains to air carrier security.
- 4.3** Identify the available resources to both domestic and international air carriers.

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Unit 5 Airport Security Programs

General Outcome:

5.0 The student shall be able to understand how airports comply with regulations through the establishment and maintenance of the Airport Security Plan.

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 5.1 Identify what the Airport Security Plan (ASP) is.**
- 5.2 Explain the purpose of the ASP and how it pertains to compliance with 49 CFR 1542**
- 5.3 Identify how the ASP governs specific airport security.**
- 5.4 Identify how the ASP is maintained by the airport in conjunction with the TSA.**

Unit 6 Current Trends in Aviation Security

General Outcome:

6.0 The student shall be able to understand current issues affecting aviation.

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 6.1 Identify groups that threaten aviation.
- 6.2 Identify reasons groups target aircraft.
- 6.3 Describe available countermeasures for air carriers.
- 6.4 Explain the role of the international community in the prevention of civil aviation threats by terrorist groups.

Unit 7

General Outcome:

- 7.0 The student shall be able to understand the potential devastation from the use of weapons of mass destruction.

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 7.1 Identify the types of weapons both explosive and biological.
- 7.2 Identify available countermeasures.
- 7.3 Recognize the importance of identifying preventative measures.
- 7.4 Describe some of the outcomes from the use of these weapons.

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Unit 8 The TSA Perspective

General Outcome:

- 8.0 The student shall be able to understand the role of the FAA in aviation security, the obstacles the agency faces, and the proactive approaches toward aviation safety and prevention.

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 8.1 Identify the role of the TSA in civil aviation security.
- 8.2 Detail the enforcement authority granted to the TSA/Civil penalty/ceasing operations.
- 8.3 Identify the actions that the TSA has taken historically as it pertains to aviation security.
- 8.4 Identify the future role of the TSA in preventative actions.
- 8.5 Recognize how the TSA is challenged in maintaining effective security measures.