

UNIT 3: SECURITY IN THE AVIATION INDUSTRY



Unit 3: Security in the Aviation Industry

Unit code: Y/602/5676

QCF Level 3: BTEC National

Credit value: 4

Guided learning hours: 30

UNIT 3: SECURITY IN THE AVIATION INDUSTRY

AIM AND PURPOSE

The aim of this unit is for learners to gain knowledge and understanding of the importance, maintenance, implementation and regulation of security within the aviation industry.

UNIT INTRODUCTION

Aviation security can be viewed in many ways – it can be an inconvenience to the travelling public or a vital tool in the prevention of terrorist incidents; it is implemented by highly visible personnel, some of whom may be armed, or it uses covert stealth and intelligence tactics to succeed. Whichever way you look at it, aviation security is a fact of life and is here to stay. How successful it is in achieving its stated aims of protecting human life, company assets and business integrity largely depends on how it is carried out.

Aviation is a high-profile global industry that remains an attractive target for individuals or groups wishing to publicize their grievances and who seem to have no regard for death and injury caused by a terrorist attack. The nature of the threat to aviation security is constantly changing, so it is essential that security agencies operate within a coordinated domestic and international network to share intelligence and develop a unified strategy to stay one step ahead.

Less frequently in the headlines, but also of significance, is the requirement to protect the aviation industry from more conventional threats such as theft and fraud. Security services help to ensure that millions of passenger bags and hundreds of thousands of tonnes of air cargo are not interfered with while in the airport environment.

In this unit learners will discover how aviation security is implemented and regulated within the UK, as well as how responses to the ever-changing threat of terrorism are harmonized and improved.

Learning Outcomes:

1. LO1. Understand the Importance of Security in the Aviation Industry
2. LO2. Understand how Security is Regulated in the Aviation Industry.
3. LO3. Understand how security systems and procedures are implemented and co-ordinated in the aviation industry
4. LO4. Understand how systems and procedures are used to monitor, control and improve aviation security.

LO3. Understand how security systems and procedures are implemented and coordinated in the aviation industry.

CLASS of : CLASS DISCUSSION AND ACTIVITIES

LESSON DELIVERY

1) Implementation and coordination of security systems:

- Check-in, e.g. matching e-ticket with photo ID, scanning hold baggage, AAA baggage accounting/ authorizing system, observing unusual behavior or travel patterns
- Security screening, e.g. passenger boarding card check, staff pass check, archway metal detector (AMD), pat down, body scan, explosive detection, liquids restrictions
- Boarding, e.g. cross-check boarding card/photo ID, verify headcount, verify passenger total matches AAA record, remove any unaccompanied bags from aircraft
- Airport, e.g. CCTV, uniformed and plain clothes security, radio system to request assistance

2) Procedures for minor security incidents and major emergencies:

- Minor security incidents on the ground or in the air, e.g. unattended baggage, missing passenger at boarding gate, lost boarding card, bag total does not tally with AAA, passenger count does not tally with manifest
- Minor security procedures, e.g. advise security of unattended bag, attempt to reunite with owner, broadcast boarding calls to alert missing passenger, contact check-in supervisor to verify passenger with missing boarding card, cancel original boarding card then reissue, re-count bags, conduct a baggage ID check, offload any unaccompanied bags from aircraft
- Major security incidents on the ground or in the air, e.g. bomb threat, violent passenger, weapon found in passenger bag
- Major security procedures, e.g. isolate area, advice police/bomb squad, do not allow passengers/staff into area until declared safe, identify violent passenger to police, withdraw staff from confrontational situation, deny boarding to the passenger, security staff confiscate bag with weapon, detain passenger, advise police, deny boarding to passenger

3) Coordination required in the event of a security breach:

- Agencies, e.g. airline staff, cabin crew, contract security, police, Special Branch, bomb squad, airport authority
- Coordination, e.g. follow standard procedures, ensure accurate information passed to all appropriate agencies, avoid duplication, avoid omissions, avoid confusion, ensure standard response to incident
- Coordinated review of actions taken after the incident

Learners are ‘instructed’ on how:

- 1) Security systems and procedures are implemented and coordinated in the aviation industry.

UNIT 3: LO3 GRADED ASSIGNMENTS GUIDELINES

LO 3: P6 – P7 – P 8 – P9 – P10 – M2

ASSIGNMENT TITLE: Maintaining and Improving Aviation Security

ASSESSMENT METHOD: Role Play AND Written Presentation

CASE STUDY/SCENARIO: Working for a security company at a busy UK airport. You have been asked to give a presentation about the implementation of security systems and how they are used to monitor, control and improve aviation security.

P6. To achieve a Pass Grade for P6, the evidence must show that you are able to: **Explain how aviation security systems and procedures are implemented and coordinated.**

To achieve P6, learners must explain how aviation security systems are implemented and coordinated. They should cover the following functional areas: check-in, security screening, boarding, and generally within the airport. Learners should include the sharing of information and a unified approach to aviation security within their evidence.

P7. To achieve a Pass Grade for P7, the evidence must show that the learner is able to: **Explain how procedures are implemented when dealing with both minor security incidents and major emergency situations.**

To achieve P7, learners must explain how procedures are implemented when agencies are faced with two minor and two major security incidents. Evidence could be based on role play. In each case, a brief description of the incident must be followed by a detailed explanation of the responses.

P8. To achieve a Pass Grade for P8, the evidence must show that the learner is able to: **Explain the co-ordination required with security agencies in the event of a breach of aviation security.**

To achieve P8, learners must explain the type of coordination required between security agencies following a breach in security. Learners can choose to link their evidence to one of the major incidents covered in P7.

ASSESSING P6, P7, AND P8: Role Playing

ROLE PLAY: *P6, P7 and P8 should be assessed together within a set of role play activities. Students must submit the script outlining to support the requirements for each task were demonstrated and met. For the assessors, a detailed witness statement must be produced, signed by both the learner and the assessor. Internal verification of a sample of learners can take place at the same time as performance.*

P9. To achieve a Pass Grade for P9, the evidence must show that the learner is able to: **Describe systems and procedures used to monitor, control and improve aviation security.**

To achieve P9, learners must describe systems and procedures used to monitor, control and improve aviation security. Learners should include one system for each sub-section of the content (monitor, control, use of intelligence, improve, equipment used).

P10. To achieve a Pass Grade for P10, the evidence must show that the learner is able to: **Explain how systems and procedures to monitor, control and improve aviation security are implemented.**

To achieve P10, learners must explain how the systems described in P9 are implemented and include all items listed in the unit content. Evidence may be produced in conjunction with P9.

M2. To achieve a Merit Grade the evidence must show that, in addition to the pass criteria, you are able to: **Analyze the consequences of non-compliance with security systems and procedures in the aviation industry.**

To achieve M2, learners must analyze the consequences of non-compliance with security systems and procedures within the aviation industry. Learners can use examples from case studies or real-life situations to support their analysis. The examples provided should cover a range of different types of security noncompliance situations. For example, the consequences of hold baggage not being scanned correctly, or the consequences of restricted areas not being monitored correctly.

ASSESSING P9, P10, AND M2: Written Presentation

Create And Deliver A Power-point Presentation to airport employees. Working for a security company at a busy UK airport. You have been asked to give a presentation about the implementation of security systems and how they are used to monitor, control and improve aviation security.

UNIT 3: SECURITY IN THE AVIATION INDUSTRY SCORE SHEET

NAME OF STUDENT:

DATE:

Learning Outcome	Students Must Meet ALL The Following Requirements For PASS Grade	ACHIEVED	
		YES	NO
	1. Briefly describe what is meant by “Security systems and procedures’		
	2. For P6 : Explain how aviation security systems and procedures are implemented and coordinated.		
	3. For P7 : Explain how procedures are implemented when dealing with both minor security incidents and major emergency situations.		
	4. For P8 : Explain the co-ordination required with security agencies in the event of a breach of aviation security.		
	5. For P9 : Describe systems and procedures used to monitor, control and improve aviation security.		
	6. For P10 : Explain how systems and procedures to monitor, control and improve aviation security are implemented.		
	7. For M2 : Analyze and draw Conclusions about: the consequences of non- compliance with security systems and procedures in the aviation industry.		
	THE STUDENT’S GROUP PRESENTATION INCLUDING ROLE PLAY IS:		
	8. Carrying Out the command in P6, P7 P8 & P10 : To Explain which means: “To give account of the purposes or reasons.”		
	9. Carrying Out the command in P9 : To Describe which means: “Give an account, including all the relevant characteristics, qualities, or events.”		
	10. Carrying Out the command in M2 : To Analyze which means: “Separate information into components and identify their characteristics. Discuss the pros and cons and make reasoned comment.”		
	11. Demonstrate the topics and perspectives related to your research findings and the Course Content in a variety of scenes and outcomes.		
	12. Evidence of adequate research based on accuracy and depth of content shared.		
	13. Using paraphernalia/props to support the role play scenes.		
	14. Acceptable level of College Diction exhibited: Attitude, Tone, Grammar, Usage and Sentence Structures.		
	15. Presenting security systems and procedures specific to the aviation industry.		
	16. Meeting Professional Standards for a structured Role Play and Presentation to meet the Assessment Criteria.		
	17. Presenting security systems and procedures specific to the aviation industry.		
	18. The Student Is Awarded A: PASS Grade MERIT Grade DISTINCTION Grade	YES	NO
Signature Of Lecturer	DATE:		
Signature Of Lecturer:		DATE:	

LO4. Understand how systems and procedures are used to monitor, control and improve aviation security.

CLASS of : CLASS DISCUSSION AND ACTIVITIES

LESSON DELIVERY

1) Systems and procedures used to monitor, control and improve security:

- Monitor, e.g. surveillance, CCTV (all areas), number plate recognition (car park), staff ID checks, passenger ID checks, overt security staff, covert security staff
- Control, e.g. restricted access, restricted zone, limited access points, electronic interrogation of passes, movement monitoring of pass holders, perimeter checks
- Use of intelligence, e.g. from international or domestic security agencies, collated by Home Office/ DfT, standard response from all UK airports
- improve, e.g. security systems audited, DfT officer attempting to breach security, taking a weapon through screening, checking training records
- Equipment used must be approved by DfT

2) Implementation of procedures:

- Information from central source, e.g. Home Office, DfT
- Changes passed to airport security agencies, e.g. police, Special Branch, contract security, airport authority
- Essential information passed to individual security officers
- Officers monitored to ensure compliance
- Introduction of biometric passports, passport scanners, face recognition

Learners are 'instructed' on how:

- 1) Systems and procedures are used to monitor, control and improve aviation security.

UNIT 3: LO4 GRADED ASSIGNMENTS GUIDELINES

LESSON: D1

ASSIGNMENT TITLE: Investigation into an Aviation Security Incident

ASSESSMENT METHOD: Verbal Discussion

CASE STUDY/SCENARIO: Working for a security company at a busy UK airport. You have been asked to write a detailed report about the involvement of security organizations, regulatory bodies, systems and procedures prior to, during and after a security incident.

D1. To achieve a Pass Grade for D1, the evidence must show that you are able to: **Discuss the involvement of security organizations, regulatory bodies, systems and procedures prior to, during and after a security incident.**

To meet D1, learners must discuss the involvement of security organizations, regulatory bodies, systems and procedures prior to, during and after a security incident. This can be achieved by focusing on one particular incident. Tutors should guide learners to focus on an incident that covers all aspects of the unit so they can demonstrate an understanding of all the learning outcomes. To achieve this, case studies or real-life scenarios can be used. Learners could focus on a real-life scenario such as the Lockerbie disaster or the 2001 shoe bomb plot.

UNIT 3: SECURITY IN THE AVIATION INDUSTRY SCORE SHEET

NAME OF STUDENT:

DATE:

Learning Outcome	Students Must Meet ALL The Following Requirements For PASS Grade	ACHIEVED	
		YES	NO
LO 1. Know the structure of the UK aviation industry	LO 4: Understand how systems and procedures are used to monitor, control and improve aviation security <i>TASK: You should carry out this task as an Employee at a busy airport:</i>		
	1. Briefly describe what is meant by “Security incident”		
	2. For D1: Discuss the involvement of security organizations, regulatory bodies, systems and procedures prior to, during and after a security incident.		
	THE STUDENT’S PRESENTATION USING VERBAL DISCUSSION IS:		
	3. Starting with a creative introduction for the discussion.		
	4. Carrying Out the command in D1: To Discuss which means: “ Give an account that addresses a range of ideas and arguments. ”		
	5. Include the topics and perspectives related to your research findings and the Course Content with specific examples.		
	6. Evidence of adequate research based on accuracy and depth of content shared.		
	7. Acceptable level of College Diction exhibited: Attitude, Tone, Grammar, Usage and Sentence Structures.		
8. Use of relevant organizations, regulatory bodies, systems and procedures.			
9. Meeting Academic and Professional Standards for an engaging discussion.			
The Student Is Awarded A: PASS Grade MERIT Grade DISTINCTION Grade		YES	NO
Name Of Assessor:		Date Of Assessment:	