

UNIT 2: HEALTH AND SAFETY IN THE AVIATION INDUSTRY



Unit 2: Health and Safety in the Aviation Industry

Unit code: R/602/5675

QCF Level 3: BTEC Nationals

Credit value: 7

Guided learning hours: 57

LEARNING OUTCOME 5: Understand A Supervisor's Responsibility Within A Human Factors Programme

AIM AND PURPOSE

The aim of this unit is for learners to gain knowledge and an understanding of health and safety within the aviation industry to ensure the integrity of flight operations, build public confidence and guarantee future development.

UNIT INTRODUCTION

This unit starts by asking learners to examine accident statistics and the importance of health and safety to the aviation industry. This sets the scene for introducing the organisations, laws and regulations tasked with keeping the aviation industry safe which are numerous and diverse and include the Health and Safety Executive (HSE), the Air Accidents Investigation Branch (AAIB) and the Civil Aviation Authority (CAA).

Learners do not need to become experts, but should understand the structure of health and safety in the aviation industry.

Learners will explore the systems that have been put in place to keep the industry safe through case studies and real-life situations, for example injuries and fatalities to personnel working on the ramp, health issues relating to cabin crew on a flight. Understanding these situations enables those working in the industry to put systems in place to deal with a multitude of different, and sometimes unimaginable, scenarios.

Learners will look at the procedures for dealing with minor and major events on the ground and in the air. The aviation industry has developed emergency plans to deal with disasters; these plans need to be tested and calibrated by everyone concerned. Learners will examine the systems used to monitor, control and improve health and safety and learn about the supervisor's responsibility within a Human Factors programme. On completion of the unit learners will appreciate the importance of providing a safe and healthy aviation environment.

LO5. Understand A Supervisor's Responsibility Within A Human Factors Programme

CLASS 9 & 10 of 24: CLASS DISCUSSION AND ACTIVITIES

LESSON DELIVERY

1) Class discussion on the supervisor's responsibility within a Human Factors programme

Supervisor responsibility:

- To Self
- To Others
- To Organization

Human Factors Programme

- Training Requirements
- Reporting Procedures
- Injury prevention procedures
- Management of fatigue/alertness awareness
- Auditing and assessment requirements

Learners are 'taught' how the:

1) Human Factor programmes for example ICAO, BA, are beneficial and related to a supervisor's responsibility

UNIT 2: LO5 GRADED ASSIGNMENTS GUIDELINES

LESSON 5: P10 – P11 – P12 – P13 – P14 – M3

ASSIGNMENT TITLE: Aviation Human Factors Programmes

ASSESSMENT METHOD: Leaflet

CASE STUDY/SCENARIO:

Working for a health and safety company at a busy UK airport. You have been asked to design a leaflet to explain the responsibilities within a Human Factors programme and the benefits to the organisation and the employee

P10.

To achieve a Pass Grade for P10, the evidence must show that you are able to: **Identify Human Factors training requirements.**

For P10, learners must provide evidence that they understand a supervisor's responsibility within a Human Factors programme by identifying the training requirements (P10) and explaining reporting procedures (P11), injury prevention procedures (P12), management of fatigue/alertness awareness (P13) and auditing and assessment requirements (P14).

P11.

To achieve a Pass Grade for P11, the evidence must show that the learner is able to: **Explain Human Factors reporting procedures.**

For P11, learners must provide evidence that they understand a supervisor's responsibility within a Human Factors programme by identifying the training requirements (P10) and explaining reporting procedures (P11), injury prevention procedures (P12), management of fatigue/alertness awareness (P13) and auditing and assessment requirements (P14)

P12.

To achieve a Pass Grade for P12, the evidence must show that you are able to: **Explain injury prevention procedures within a Human Factors programme.**

For P12, learners must provide evidence that they understand a supervisor's responsibility within a Human Factors programme by identifying the training requirements (P10) and explaining reporting procedures (P11), injury prevention procedures (P12), management of fatigue/alertness awareness (P13) and auditing and assessment requirements (P14).

P13.

To achieve a Pass Grade for P13, the evidence must show that the learner is able to: **Explain the management of fatigue/alertness awareness.**

must provide evidence that they understand a supervisor's responsibility within a Human Factors programme by identifying the training requirements (P10) and explaining reporting procedures (P11), injury prevention procedures (P12), management of fatigue/alertness awareness (P13) and auditing and assessment requirements (P14)

P14.

To achieve a Pass Grade for P14, the evidence must show that the learner is able to: **Explain the auditing and assessment requirements of a Human Factors programme.**

For P8, learners must provide evidence that they understand a supervisor's responsibility within a Human Factors programme by identifying the training requirements (P10) and explaining reporting procedures (P11), injury prevention procedures (P12), management of fatigue/alertness awareness (P13) and auditing and assessment requirements (P14)

M3.

To achieve a Pass Grade for M3, the evidence must show that the learner is able to: **Outline the benefits to the organisation and the employee of a Human Factors programme.**

For M3, learners must outline the benefits to the organisation and the employee of a Human Factors programme. Learners should examine a number of aviation Human Factors programmes (available on the internet) and identify the key benefits in relation to minimising human error. For example, learners could look at the issue of fatigue and how a Human Factors programme helps organisations to manage the fatigue risk to which they and their employees are exposed. Learners can link with M1 and M2 where the cause of an accident has been human error due to fatigue because crew have gone over their hours and become too tired to undertake their responsibilities effectively.

UNIT 2: HEALTH AND SAFETY IN THE AVIATION INDUSTRY SCORE SHEET

Learning Outcome	Students Must Meet ALL The Following Requirements For PASS Grade	ACHIEVED	
		YES	NO
LO5 Understand a supervisor's responsibility within a Human Factors Programme	LO 5: Understand a supervisor's responsibility within a Human Factors Programme TASK: You should carry out this task as an Employee at a busy airport:		
	1. Briefly define 'Human Factors'		
	2. For P10: Identify Human Factors training requirements		
	3. For P11: Explain Human Factors reporting procedures.		
	4. For P12: Explain injury prevention procedures within a Human Factors programme		
	5. For P13: Explain the management of fatigue/alertness awareness		
	6. For P14: Explain the auditing and assessment requirements of a Human Factors programme.		
	7. For M3: Outline and draw Conclusions about: The benefits to the organization and the employee of a Human Factors programme.		
	THE STUDENT'S LEAFLET IS:		
	8. Carrying Out the command in P10: To Identify which means: " Recognize, list, name or otherwise characterize. "		
	9. Carrying Out the command in P11: To Explain which means: " To give account of the purposes or reasons. "		
	10. Carrying Out the command in P12: To Explain which means: " To give account of the purposes or reasons. "		
	11. Carrying Out the command in P13: To Explain which means: " To give account of the purposes or reasons. "		
	12. Carrying Out the command in P14: To Explain which means: " To give account of the purposes or reasons. "		
	13. Carrying Out the command in M3: To Outline which means: " A description setting out main characteristics/points. "		
11. Discussing the <u>topics and perspectives related to</u> your research findings and the Course Content.			
12. Using clearly defined headings for each question eg. P1, P2, M1 etc.			
13. Citing reliable sources used in your work whether paraphrased or directly quoted.			
14. Using Harvard Referencing Style properly.			
15. Acceptable level of College Writing exhibited: Spelling, Punctuation, Grammar, Usage and Sentence			

	Structures.		
	13. Meeting Professional Guidelines for a leaflet		
	The Student Is Awarded A: PASS Grade MERIT Grade DISTINCTION Grade	YES	NO
Name Of Assessor:		Date Of Assessment:	