

AVIO H2607: Human Factors

Module Title:		Human Factors				
Language of	f Instruction:	English				
Credits:	5					
NFQ Level:	6					
Module Deliv	vered In	No Programmes				
Teaching & Learning Strategies:		This module will be taught by Lectures, Tutorials, and discussion/analysis of published aircraft accident investigation reports.				
Module Aim:		The student will understand that by recognising human factors issues in aircraft flight crew & maintenance engineering, it can help them to identify problems and prevent accidents. By analysing various case studies, the student will understand the 'human' side of aircraft accidents and incidents, specifically the social, physical, physiological and environmental aspects as they affect the flight crew, maintenance staff and management.				
Learning Ou	Learning Outcomes					
On successful completion of this module the learner should be able to:						
LO1	Describe how	W Human Factors issues affect performance of aviation tasks				
LO2	Identify and share safety information effectively with others using a wide range of communication skills					
LO3	Explain the various types of human error occuring within aviation and analyse their effect					
LO4	Describe the	types of common hazards in workplace and identify how to eliminate them				

Pre-requisite learning

Module Recommendations
This is prior learning (or a practical skill) that is recommended before enrolment in this module.

No recommendations listed

Incompatible Modules

These are modules which have learning outcomes that are too similar to the learning outcomes of this module.

No incompatible modules listed

Co-requisite Modules

No Co-requisite modules listed

This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed.

No requirements listed

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Module Content & Assessment

Indicative Content

The Need To Take Human Factors Into Account; Incidents Attributable To Human Factors/Human Error; 'Murphy's' Law.

Human Performance And Limitations

Vision; Hearing; Information Processing; Attention And Perception; Memory; Claustrophobia And Physical Access.

Social Psychology
Responsibility: Individual And Group; Motivation And De-Motivation; Peer Pressure; 'Culture' Issues; Team Working; Management, Supervision And Leadership.

Factors Affecting Performance
Fitness/Health; Stress: Domestic And Work Related; Time Pressure And Deadlines; Workload: Overload And Underload; Sleep And Fatigue, Shiftwork; Alcohol, Medication, Drug Abuse.

Physical EnvironmentNoise And Fumes; Illumination; Climate And Temperature; Motion And Vibration; Working Environment

Physical Work; Repetitive Tasks; Visual Inspection; Complex Systems

Communication

Within And Between Teams; Work Logging And Recording; Keeping Up To Date, Currency; Dissemination Of Information

Human Error
Error Models And Theories; Types Of Error In Maintenance Tasks; Implications Of Errors (I.E. Accidents) Avoiding And Managing Errors.

Hazards In The WorkplaceRecognising And Avoiding Hazards; Dealing With Emergencies.

Assessment Breakdown	%
Continuous Assessment	30.00%
End of Module Formal Examination	70.00%

Continuous Assessment					
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date	
Short Answer Questions	Each student will take Sketch/Drawing/Short Answer-format Continuous Assessment exams, administered during term time for which a maximum of 30% will be awarded	1,2,3,4	30.00	n/a	

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No Practical

End of Module Formal Examination					
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date	
Formal Exam	Each student will sit a formal written examination at the end of the module for which a maximum of 70% will be awarded.	1,2,3,4	70.00	End-of- Semester	

SETU Carlow Campus reserves the right to alter the nature and timings of assessment



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Module Workload

Workload: Full Time		
Workload Type	Frequency	Average Weekly Learner Workload
Lecture	Every Week	1.00
Tutorial	Every Week	1.00
	Total Hours	2.00