

AVIATION AUSTRALIA Human Factors Part 145 Training

The largest CASR and EASA Part 147 approved Maintenance Training Organisation in Australia.

COURSE OUTLINE



RTO/MTO Aviation Australia	Name	Aviation Australia Pty Ltd	RTO number CASR Part 147 EASA Part 147	30770 CASA.147MTO.0025 EASA.147.0012
Course Details	Code	145HF (AA-26a)		
	Title	Part 145 Human Factors		
Purpose of Course	<p>The purpose of this course is to provide maintenance personnel with the initial underpinning knowledge for the application of Human Factors within Aviation Maintenance. It is specifically aimed at minimising the risks associated with Human Factors and human performance limitation influences on human error within the maintenance organisation.</p> <p>NOTE: As laid out in 145.A.30 of the EASA and CASR regulations, this is mandatory training for all personnel involved in any maintenance, management and/or quality auditing.</p>			
Target Groups	All personnel involved in any maintenance, management and/or quality auditing within the maintenance environment.			
Regulatory requirements/ Packaging Rules	<p>As per:</p> <ul style="list-style-type: none"> • 145.A.30 of EU 1321/2014 • 145.A.30 of the CASR Part 145 Manual of Standards 			
Training and Assessment	The Human Factors training is online training that is delivered and assessed using Aviation Australia's learning management system called Dynamic Online Training System (DOTS).			
Course Costing	\$120			
Outcome	Part 145 - Certificate of Completion			

Annex A Course Syllabus

	General / Introduction to Human Factors
Topic 1	1.1 Describe the need to address Human Factors 1.2 Be familiar with the statistics relating to Human Factors within the aviation industry. 1.3 Be familiar with incidents involving Human Factors within the aviation industry.
	Safety Culture / Organisational Factors
Topic 2	Describe Safety Culture and the Organisational factors that affect Human Factors in the aviation maintenance industry.
	Human Error
Topic 3	Describe the factors that are associated with Human Error: 3.1 Error models and theories, 3.2 Types of error in maintenance tasks, 3.3 Violations 3.4 Implications of errors - e.g. accidents 3.5 Avoiding and managing errors. 3.6 Human Reliability
	Human Performance Limitations
Topic 4	Describe how Human Performance and Limitations are affected by: 4.1 Vision 4.2 Hearing 4.3 Information-processing 4.4 Attention and perception 4.5 Situational Awareness 4.6 Memory 4.7 Claustrophobia and physical access, 4.8 Motivation 4.9 Fitness and Health 4.10 Stress 4.11 Workload Management 4.12 Fatigue 4.13 Alcohol, medication and drugs 4.14 Physical work 4.15 Repetitive tasks/ Complacency
	Environment
Topic 5	Describe how Human Factors are affected by the work environment: 5.1 Peer Pressure 5.2 Stressors 5.3 Time pressure and deadlines 5.4 Workload 5.5 Shift Work 5.6 Noise and Fumes 5.7 Illumination 5.8 Climate and Temperature 5.9 Motion and Vibration 5.10 Complex Systems 5.11 Hazards in the workplace 5.12 Lack of Manpower 5.13 Distractions and interruptions

	Procedures, Information, Tools and Practices
Topic 6	Describe the human factors aspects of maintenance procedures, information, tools and practices including: 6.1 Visual inspection 6.2 Work logging and recording 6.3 Procedure – practice/mismatch/norms 6.4 Technical documentation – access and quality
	Communication
Topic 7	Describe the factors that are associated with Communication: 7.1 Shift/Task Handover 7.2 Dissemination of information 7.3 Cultural differences
	Teamwork
Topic 8	Describe teamwork as an aspect of Human Factors with respect to the following: 8.1 Responsibility 8.2 Management, supervision and leadership, 8.3 Decision Making
	Professionalism and Integrity
Topic 9	Describe the following issues in relation to Human Factors: 9.1 Keeping up to date: Currency 9.2 Error provoking behaviour 9.3 Assertiveness