

AVIATION AUSTRALIA Fuel Tank Safety 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	145FTS/CDCCL (AA-47)		
	Title	Part 145 Fuel Tank Safety		
Purpose of Course	<p>The purpose of this course is to provide initial training to maintenance personnel with the history, theoretical and practical elements of Fuel Tank Safety (FTS) / Critical Design Configuration Control Limitations (CDCCL) in order to plan, perform, supervise, inspect and certify the maintenance of aircraft and fuel system components. It encompasses both awareness (phase 1) and detailed training (phase 2).</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 FTS/CDCCL 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			



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Annex A Course Syllabus

Topic 1	Introduction to Fuel Tank Safety
	<p>Understand the motivation for Fuel Tank Safety from past accidents, investigations and conclusions.</p> <p>Describe the theoretical background behind the risk of fuel tank safety including:</p> <ul style="list-style-type: none"> • Explosions of mixtures of Fuel and Air • The behaviour of those mixes in the aviation environment • The effects of temperature and pressure • Energy needed for ignition • The Fire Triangle • Preventing Explosions • Ignition Source Prevention • Flammability Reduction
Topic 2	Flammability Reduction Systems
	<p>Describe flammability reduction systems when installed:</p> <ul style="list-style-type: none"> • Background Information and Regulatory requirements • Reasons for their presence • Effects • Hazards, and • Safety precautions
Topic 3	Special Federal Aviation Regulation 88 (SFAR 88)
	<p>Understand the Special Federal Aviation Regulation 88 in terms of:</p> <ul style="list-style-type: none"> • The reasoning for these documents • The ultimate goals of the SFAR 88 • Margins of Fuel System Safety improvements • Discuss the results of the SFAR 88 <p>Explain the concepts being used in Fuel Tank Safety Modifications</p> <p>Discuss Airworthiness Limitations</p> <p>Describe Critical Design Configuration Control Limitation</p> <p>Discuss Fuel Tank Safety Training</p>
Topic 4	Maintenance Procedures and Safety
	<p>Understand the main considerations of Fuel Tank Maintenance:</p> <ul style="list-style-type: none"> • Fuel Tank Design and susceptibility to heating • Fuel Tank entry and exit procedures • Configuration Control • Components In-Service Experience • Electrical hazards, wire separation and bonding of parts • Safe working practises • Identifying unsafe conditions and how to correct them • Recording maintenance actions and results of inspections



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