

AVIATION AUSTRALIA

Electrical Wiring Interconnection System (EWIS)

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	EWIS		
	Title	Electronic Wiring Interconnection System (EWIS)		
Purpose of Course	<p>The purpose of this course is to provide minimum initial theory training on EWIS to enable personnel who perform wiring systems maintenance to improve the airworthiness code for large aeroplanes and the requirements for continued airworthiness in the field of electrical wiring interconnection systems since failures in those systems have been identified as causal factors in several incidents and accidents involving large aeroplanes.</p> <p>NOTE: As laid out in 145.A.30 of the EASA regulations, this is mandatory training for all personnel involved in any maintenance, management and/or quality auditing.</p>			
Target Groups	<p>Group 1 Qualified staff performing EWIS maintenance Group 2 Qualified staff performing maintenance inspections on wiring systems Group 3 Qualified staff performing electrical/avionic engineering on in-service aeroplanes. Group 4 Qualified staff performing general maintenance/inspections not involving wire maintenance. (LRU change is not considered wire maintenance) Group 5 Qualified staff performing other engineering or planning work on in-service aeroplanes Group 6 Other service staff with duties in proximity to EWIS Group 7 Flight Deck Crew Group 8 Cabin Crew</p>			
Regulatory requirements/ Packaging Rules	<p>As per:</p> <ul style="list-style-type: none"> • 145.A.30 of EU 1321/2014 • EASA AMC 20-22 ED Decision 2008/007/R of 29/08/2008 			
Training and Assessment	<p>The EWIS training is self-study training that is delivered and assessed using Aviation Australia’s online learning management system called Dynamic Online Training System (DOTS).</p> <p>NOTE: The online course does not cover Module G - this is a practical module specifically for Group 1 candidates; more information is contained in “Groups 1 and 2”.</p>			
Course Costing	<p>Groups 1 and 2: \$120 Group 3: \$120 Groups 4 and 5: \$120 Groups 6, 7 and 8: \$80</p>			
Outcome	Part 145 - Certificate of Completion			

<p>Groups 1 and 2</p>	<p>EWIS Groups 1 and 2</p> <p>Groups 1 and 2</p> <p>Qualified staff members who perform wiring systems maintenance and their training is based on their job description and the work being done by them (e.g. avionics skilled workers or technicians cat B2).</p> <p>It also includes staff members who perform EWIS inspections (but not maintenance) and their training is based on their job description and the work being done by them (e.g. inspectors / technicians cat B1/B2).</p> <p>Modules included in the training are as follows:</p> <p>Module A General EWIS Practices Module B Wiring Practices Documentation Module C Inspection Module D Housekeeping Module E Wire Module F Connective Devices Module G Connective Device Repair – only required for Group 1*</p> <p>NOTE: The online course does not cover Module G. For this module EASA Regulations state that individuals have to be able to ‘Demonstrate the procedures for replacement of all parts of typical types of connectors found on the applicable aeroplane’. We have a small Practical Journal that can be completed in the workplace, once complete and signed off by the 145 AMO, we can issue a full certificate to confirm competence.</p> <p>Alternatively, for larger groups, we can arrange for an instructor-led training course to be delivered. Please make an enquiry via our website for more information.</p>
<p>Group 3</p>	<p>EWIS Group 3</p> <p>Qualified staff performing electrical/avionic engineering on in-service aeroplane.</p> <p>These staff members are personnel who are authorised to design EWIS installations, modifications and repairs (e.g. electric/avionic engineers).</p> <p>Module B Wiring Practices Documentation Module D Housekeeping Module E Wire Module F Connective Devices</p>

<p>Groups 4 and 5</p>	<p>EWIS Groups 4 and 5</p> <p>Groups 4 and 5 have been merged to cover:</p> <p>Qualified staff performing general maintenance/inspections not involving wire maintenance (LRU change is not considered wire maintenance).</p> <p>They perform maintenance on aeroplanes that may require removal/reconnection of electrical connective devices (e.g. inspectors/technicians cat A or B1)</p> <p>Also Qualified staff performing other engineering or planning work on in-service aeroplanes and are personnel who are authorised to design mechanical/structure, systems installations, modifications and repairs, or personnel who are authorised to plan maintenance tasks.</p> <p>Modules included in the training are as follows:</p> <p>Module A General EWIS Practices Module C Inspection Module D Housekeeping Module E Wire Module F Connective Devices</p>
<p>Groups 6, 7 and 8</p>	<p>EWIS Groups 6, 7 and 8</p> <p>EWIS Groups 6, 7 and 8 are aimed at other service staff with duties in proximity to EWIS.</p> <p>These staff members are personnel whose duties would bring them into contact/view of aeroplane wiring systems.</p> <p>This would include, but not be limited to:</p> <p>Aeroplane cleaners, cargo loaders, re-fuelling staff, lavatory servicing personnel, de-icing personnel, push back personnel, flight deck crew and cabin crew.</p> <p>Modules included in the Group 6, 7 and 8 training are as follows:</p> <p>Module A General EWIS Practices Module C Inspection Module D Housekeeping Module E Wire</p>